



DEPARTMENT OF THE ARMY

OFFICE OF ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT
U.S. ARMY FORT MONMOUTH
P.O. BOX 148
OCEANPORT, NEW JERSEY 07757

08 February 2017

Ms. Linda Range
New Jersey Department of Environmental Protection
Bureau of Case Management
401 East State Street
PO Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028

**Subject: Request for No Further Action at Multiple Parcel 79 Storage Tanks Site
Investigation Report Addendum
Fort Monmouth, Oceanport, New Jersey
PIG000000032**

Attachments:

- A. Figure 1: Layout of Parcel 79
Figure 2: Parcel 79 Area 75 Sample Locations
Figure 3: Groundwater Sample Locations for Multiple USTs at Parcel 79
Figure 4: Parcel 79 UST 142B Sample Locations
Figure 5: Parcel 79 UST 202A and 202D Sample Locations
Figure 6: Parcel 79 UST 490 Sample Locations
- B. Table 1: Validated Laboratory Data Results for Groundwater, Parcel 79
Table 2: Validated Laboratory Data Results for Soil, Parcel 79
- C. Field Notes
- D. Boring Logs
- E. Analytical Data

Previous Correspondence (not attached):

- 1. Army letter to NJDEP dated 22 April 2015, Subject: *Underground Storage Tanks within Parcel 79 Fort Monmouth, New Jersey.*
- 2. NJDEP letter to the Army dated 25 August 2015, Subject: *Underground Storage Tanks within ECP Parcel 76 dated April 2015 Fort Monmouth.*
- 3. Army letter to NJDEP dated 10 February 2016, Subject: *Response to NJDEP's August 25, 2015 Comments on the April 2015 Underground Storage Tanks within ECP Parcel 79, Fort Monmouth, New Jersey.*
- 4. NJDEP letter to Army dated 30 March 2016, Subject: *Response to NJDEP's August 25, 2015 Comments on the April 2015 Underground Storage Tanks within ECP Parcel 79 and Work Plan Addendum for Former Storage Tank Sites, Fort Monmouth, Oceanport, Monmouth County.*

Dear Ms. Range:

The U.S. Army Fort Monmouth (FTMM) Team has prepared this addendum to present the results of additional field sampling at the two Area 75 former Aboveground Storage Tanks (ASTs; designated as AST-1 and AST-2) and thirteen former Underground Storage Tanks (USTs) 142B, 202A, 202D, 437, 440, 441, 444, 445, 448, 449, 450, 451, and 490, all located within Environmental Condition of Property (ECP) Parcel 79 (Figure 1 of **Attachment A**). These USTs were unregulated heating oil tanks (UHOTs) that were identified as requiring additional sampling of groundwater. The Area 75 ASTs and USTs 202A, 202D, and 490 were also identified as requiring additional soil sampling, as described in the 10 February 2016 Parcel 79 Work Plan Addendum (Correspondence 3) and in the following subsection 1.0, 2.0, and 3.0.

One temporary groundwater monitor well was installed with a Geoprobe® rig immediately downgradient of Parcel 79 USTs 142B, 202A, 202D, 437, 440, 441, 444, 445, 448, 449, 450, and 451, and a groundwater sample was collected from each well to determine if a fuel oil release had impacted groundwater. For the Area 75 ASTs, a temporary well was installed immediately downgradient of each former tank. Three temporary wells were installed at UST 490 to delineate the extent of groundwater contamination. Groundwater samples were also collected from three permanent monitor wells (202MW01 at UST 202A, M16MW01 at 202D, and 490MW01 at UST 490). Field sampling for temporary wells was completed on 3, 4, and 5 August 2016. Field sampling for permanent wells was completed on 25 May 2016. All groundwater samples were analyzed for volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) plus tentatively identified compounds (TICs), in accordance with the requirements for No. 2 Fuel Oil in Table 2-1 of the New Jersey Administrative Code (NJAC) 7:26E Technical Requirements for Site Remediation.

Soil samples were also collected from borings advanced with a Geoprobe® rig at the Area 75 ASTs and USTs 202A, 202D, and 490 to assess current concentrations and vertical extent of extractable petroleum hydrocarbons (EPH) in soil. Field sampling was completed on 12 and 13 April 2016. One soil sample from boring PAR-79-490-SB-04 (at UST 490) was also analyzed for the additional contingency SVOC analytes naphthalene and 2-methylnaphthalene due to EPH concentration exceeding 1,000 mg/kg (NJDEP, 2010¹).

It is important to note that the occurrence of polycyclic aromatic hydrocarbons (PAHs) in Parcel 79 groundwater warrants additional explanation. Exceedances of the NJDEP Ground Water Quality Criteria (GWQC) for multiple PAHs occurred at 12 of the 17 temporary wells during the August 2016 sampling. In contrast, none of the seven groundwater samples collected at permanent monitor wells 290MW01, M16MW01, and 490MW01 had any PAH exceedances. Furthermore, another nearby permanent well within Parcel 79 (430MW01; see Figure 3 of **Attachment A**) had no PAHs detected in samples collected in 1995, as reported in Attachment O of Correspondence 1. These relatively low solubility, high molecular weight PAHs such as benzo(a)pyrene have been

¹ NJDEP, 2010. *Protocol for Addressing Extractable Petroleum Hydrocarbons*. Site Remediation Program. Version 5.0. August 9.

encountered at other FTMM locations within surficial soils and fill that are unrelated to fuel oil USTs. Evidence of soil fill including brick and coal fragments were encountered within several Parcel 79 soil borings; please see **Attachment D**. Therefore, the PAH groundwater exceedances at Parcel 79 temporary wells were most likely the result of entrainment of soil resulting in sample turbidity, which is common with temporary well grab groundwater samples. In contrast, fuel oil releases are typically characterized by the specific PAHs naphthalene and 2-methylnaphthalene in groundwater. Therefore, temporary monitor wells with PAH exceedances that were not characteristic of fuel oil (i.e., without signature exceedances of naphthalene and 2-methylnaphthalene) are not considered indicative of a fuel oil release to groundwater.

The locations of the field samples are presented in Figures 1 through 6 of **Attachment A**. The analytical results and exceedances of applicable NJDEP criteria are provided in **Attachment B**. Field notes are provided in **Attachment C**, and boring logs are provided in **Attachment D**. The samples were analyzed by ALS Environmental; analytical data packages are provided in **Attachment E**.

1.0 AREA 75 ABOVE-GROUND STORAGE TANKS

AST-1 and AST-2 were bulk above-ground fuel oil tanks that were removed in 1995 as described in Attachment E of Correspondence 1. Four soil borings were sampled in response to NJDEP comments on the 10 February 2016 Work Plan Addendum (Correspondence 4). Soil samples were analyzed for EPH; additional contingency SVOC analysis for naphthalene and 2-methylnaphthalene was not required due to EPH concentrations not exceeding 1,000 mg/kg (NJDEP, 2010).

Soil analytical results are presented in Table 2 (**Attachment B**). The maximum total EPH concentration encountered in soil was 319 mg/kg, which is below the NJ Residential Direct Contact Soil Remediation Standard (RDSCRS) of 5,100 mg/kg. The results from the soil borings at AST-1 and AST-2 indicate that further soil investigation is not warranted.

Temporary well PAR-79-A75-TMW-01 was installed, sampled, and subsequently abandoned at the location of AST-2, and temporary well PAR-79-A75-TMW-02 was installed, sampled, and subsequently abandoned at the location of AST-1 (see Figure 2 of **Attachment A**). Groundwater was encountered at approximately 3 to 4 feet below ground surface (ft bgs) in the soil borings, and at 4 ft bgs and 9 ft bgs at the two wells; please see **Attachments C and D**. As shown on Table 2 of **Attachment B**, there were seven PAH exceedances of the GWQC (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenz[a,h]anthracene, and indeno[1,2,3-cd]pyrene) in the primary sample and four exceedances (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, and indeno[1,2,3-cd]pyrene) in the duplicate sample at PAR-79-A75-TMW01. There were three exceedances (benzo[a]anthracene, benzo[a]pyrene, and benzo[b]fluoranthene) of the GWQC in the groundwater sample at PAR-79-A75-TMW02. As indicated above, the PAH exceedances are attributable to entrainment of soil resulting in sample turbidity associated with the installation of the temporary wells. None of the groundwater samples collected in May 2016 from permanent monitor wells associated with Parcel 79 had any PAH exceedances. Another nearby permanent well within Parcel 79 (430MW01) had no PAHs detected

in samples collected in 1995. There were no exceedances of the GWQC indicative of fuel oil (i.e., naphthalene or 2-methylnaphthalene).

2.0 MULTIPLE PARCEL 79 UNDERGROUND STORAGE TANKS

The results of the sampling and analyses are provided below for each of the ten UHOT sites shown on Figures 3 and 4 in **Attachment A**.

UST 142B

UST 142B was a residential fuel oil tank that was removed in 1994 as described in Attachment H of Correspondence 1. Temporary well PAR-79-142-TMW-01 was installed, sampled, and subsequently abandoned (Figure 4 of **Attachment A**). Groundwater was encountered at approximately 7 ft bgs; please see **Attachment C**. As shown on Table 2 of **Attachment B**, there were seven GWQC exceedances (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenz[a,h]anthracene, and indeno[1,2,3-cd]pyrene). As previously discussed, the PAH exceedances in this temporary well sample are attributable to entrainment of soil resulting in sample turbidity. There were no exceedances of the GWQC indicative of fuel oil (i.e., naphthalene or 2-methylnaphthalene).

UST 437

UST 437 was a residential fuel oil tank that was removed in 2010 as described in Attachment Q of Correspondence 1. Temporary well PAR-79-MP-TMW-08 was installed, sampled, and subsequently abandoned (Figure 3 of **Attachment A**). Groundwater was encountered at approximately 6 ft bgs; please see **Attachment C**. As shown on Table 2 of **Attachment B**, there were no exceedances of the GWQC.

UST 440

UST 440 was a residential fuel oil tank that was removed in 2010 as described in Attachment R of Correspondence 1. Temporary well PAR-79-MP-TMW-01 was installed, sampled, and subsequently abandoned (Figure 3 of **Attachment A**). Groundwater was encountered at approximately 5 ft bgs; please see **Attachment C**. As shown on Table 2 of **Attachment B**, benzo(a)anthracene (0.23 µg/l) and benzo(a)pyrene (0.13 µg/l) slightly exceeded the GWQC (0.1 µg/l) neither of which are indicative of fuel oil. As previously discussed, the PAH exceedances are attributable to entrainment of soil resulting in sample turbidity associated with the installation of the temporary well. There were no exceedances of the GWQC indicative of fuel oil (i.e., naphthalene or 2-methylnaphthalene).

UST 441

UST 441 was a residential fuel oil tank that was removed in 2010 as described in Attachment D of Correspondence 1. Temporary well PAR-79-MP-TMW-07 was installed, sampled, and subsequently abandoned (Figure 3 of **Attachment A**). Groundwater was encountered at approximately 8 ft bgs; please see **Attachment C**. As shown on Table 2 of **Attachment B**,

benzo(a)anthracene (0.34 µg/l), benzo(a)pyrene (0.29 µg/l), and benzo(b)fluoranthene (0.31 µg/l) slightly exceeded the GWQC (0.1, 0.1, and 0.2 µg/l, respectively). As previously discussed, the PAH exceedances are attributable to entrainment of soil resulting in sample turbidity associated with the installation of the temporary well. There were no exceedances of the GWQC indicative of fuel oil (i.e., naphthalene or 2-methylnaphthalene).

UST 444

UST 444 was a residential fuel oil tank that was removed in 2010 as described in Attachment V of Correspondence 1. Temporary well PAR-79-MP-TMW-02 was installed, sampled, and subsequently abandoned (Figure 3 of **Attachment A**). Groundwater was encountered at approximately 4 ft bgs; please see **Attachment C**. As shown on Table 2 of **Attachment B**, one VOC (benzene) and three SVOCs (2-methylnaphthalene, benzo[a]anthracene, and benzo[a]pyrene) exceeded the GWQC. The total sum of SVOC TICs also exceeded the GWQC. There were no exceedances of the GWQC indicative of fuel oil (i.e., naphthalene or 2-methylnaphthalene).

UST 445

UST 445 was a residential fuel oil tank that was removed in 2010 as described in Attachment U of Correspondence 1. Temporary well PAR-79-MP-TMW-06 was installed, sampled, and subsequently abandoned (Figure 3 of **Attachment A**). Groundwater was encountered at approximately 5 ft bgs; please see **Attachment C**. As shown on Table 2 of **Attachment B**, there were no exceedances of the GWQC.

UST 448

UST 448 was a residential fuel oil tank that was removed in 2010 as described in Attachment W of Correspondence 1. Temporary well PAR-79-MP-TMW-03 was installed, sampled, and subsequently abandoned (Figure 3 of **Attachment A**). Groundwater was encountered at approximately 4 ft bgs; please see **Attachment C**. As shown on Table 2 of **Attachment B**, there were no exceedances of the GWQC.

UST 449

UST 449 was assumed to be a residential fuel oil tank because of information identified during a records review. Soil samples were collected in 2010, and a soil sample for a test trench was excavated in May 2010. The results of the test trench and visual evidence indicated that a release had occurred, but no tank was found. The soils had a strong petroleum odor as described in Attachment X of Correspondence 1. Temporary well PAR-79-MP-TMW-04 was installed, sampled, and subsequently abandoned (Figure 3 of **Attachment A**). Groundwater was encountered at approximately 5 ft bgs; please see **Attachment C**. As shown on Table 2 of **Attachment B**, benzo(a)anthracene (0.25 µg/l), benzo(a)pyrene (0.13 µg/l), and benzo(b)fluoranthene (0.22 µg/l) slightly exceeded the GWQC (0.1, 0.1, and 0.2, respectively). As previously discussed, the PAH exceedances are attributable to entrainment of soil resulting in

sample turbidity associated with the installation of the temporary well. There were no exceedances of the GWQC indicative of fuel oil (i.e., naphthalene or 2-methylnaphthalene).

UST 450

UST 450 was a residential fuel oil tank that was removed in 2010 as described in Attachment Y of Correspondence 1. Temporary well PAR-79-MP-TMW-05 was installed, sampled, and subsequently abandoned (Figure 3 of **Attachment A**). Groundwater was encountered at approximately 5 ft bgs; please see **Attachment C**. As shown on Table 2 of **Attachment B**, there were no exceedances of the GWQC.

UST 451

UST 451 was a residential fuel oil tank that was removed in 2010 as described in Attachment Z of Correspondence 1. Temporary well PAR-79-MP-TMW-09 was installed, sampled, and subsequently abandoned (Figure 3 of **Attachment A**). Groundwater was encountered at approximately 4 ft bgs; please see **Attachment C**. As shown on Table 2 of **Attachment B**, benzo(a)anthracene (0.18 µg/l) slightly exceeded the GWQC (0.1 µg/l) in this groundwater sample. As previously discussed, the PAH exceedances are attributable to entrainment of soil resulting in sample turbidity associated with the installation of the temporary wells. There were no exceedances of the GWQC indicative of fuel oil (i.e., naphthalene or 2-methylnaphthalene).

3.0 USTS 202A AND 202D

USTs 202A and 202D were residential fuel oil tanks that were removed in 2001 as described in Attachment J of Correspondence 1. Three soil borings (see Figure 5 of **Attachment A**) were sampled in response to NJDEP comments on the 10 February 2016 Work Plan Addendum (Correspondence 4). Soil samples were analyzed for EPH; additional contingency SVOC analyses for naphthalene and 2-methylnaphthalene was not required (NJDEP, 2010). Soil analytical results are presented in Table 2 (Attachment B). The maximum total EPH concentration encountered in soil was 345 mg/kg. The results from the soil borings at USTs 202A and 202D indicate that further soil investigation is not warranted.

Temporary well PAR-79-202-TMW-01 was installed, sampled, and subsequently abandoned (Figure 5 of **Attachment A**). Groundwater was encountered at approximately 2 to 5 ft bgs; please see **Attachments C and D**. Permanent monitor wells 202MW01 and M16MW02 were previously installed at this site, and were also sampled (Figure 5 of **Attachment A**). Well 202MW01 was installed near the former location of UST 202D in August 2011 but apparently was never previously sampled. Well M16MW02 was constructed in March 2011 and is located downgradient of USTs 202A and 202D.

As shown on Table 2 of **Attachment B**, there was one slight PAH exceedance (benzo[a]anthracene at 0.19 µg/l) of the GWQC (0.1 µg/l) in the temporary well sample. There were no exceedances of the GWQC in the permanent well samples. As previously discussed, the PAH exceedances are attributable to entrainment of soil resulting in sample turbidity associated with the installation of

the temporary well. There were no exceedances of the GWQC indicative of fuel oil (i.e., naphthalene or 2-methylnaphthalene).

4.0 UST 490

UST 490 was a residential fuel oil tank that was removed in 1990 as described in Attachment CC of Correspondence 1. Four soil borings were sampled in response to NJDEP comments on the 10 February 2016 Work Plan Addendum (Correspondence 4), and soil samples were analyzed for EPH.

Total EPH concentrations of 1,600 mg/kg in one of the soil samples (the 3.5 to 4 ft bgs interval of boring PAR-79-490-SB-04; see Table 2 of **Attachment B**) exceeded the contingency analysis threshold of 1,000 mg/kg (NJDEP, 2010), and therefore this sample was also analyzed for naphthalene and 2-methylnaphthalene. The 2-methylnaphthalene concentration of 9,000 $\mu\text{g/kg}$ in this sample exceeded the NJDEP IGW screening level of 8,000 $\mu\text{g/kg}$, but did not exceed the RDCSRS. Additional Synthetic Precipitation Leachate Procedure (SPLP) analysis of this soil sample was not performed, as prescribed in NJDEP (2010).

Three temporary wells (PAR-79-490-TMW-01, PAR-79-490-TMW-02, and PAR-79-490-TMW-03) were installed, sampled for groundwater, and subsequently abandoned (Figure 6 of **Attachment A**). Existing monitor well 490MW01, installed in August 2011, was also sampled. (**Attachment A**). Groundwater was encountered at approximately 2 to 3.5 ft bgs; please see **Attachments C and D**.

As shown on Table 2 of **Attachment B**, PAH exceedances of the GWQC were encountered at temporary wells PAR-79-490-TMW01 (benzo[a]anthracene) and PAR-79-490-TMW02 (benzo[a]anthracene and benzo[b]fluoranthene). As previously discussed, the PAH exceedances are attributable to entrainment of soil resulting in sample turbidity associated with the installation of the temporary wells. There were no exceedances of the GWQC indicative of fuel oil (i.e., naphthalene or 2-methylnaphthalene). There were no exceedances of the GWQC in the three groundwater samples collected from permanent well 490MW01. However, there were GWQC exceedances for 2-methylnaphthalene and the sum of SVOC TICs in the groundwater sample from PAR-79-490-TMW03, which was located downgradient of the former UST 490.

5.0 SUMMARY

No Further Action determinations are requested for soil and groundwater for the two ASTs at Area 75 and USTs 202A and 202D. No Further Action determinations are requested for groundwater for USTs 142 B, 437, 440, 441, 445, 448, 449, 450, and 451. Additional work would be needed for NFA determinations to be made at USTs 490 and 444. The technical Point of Contact (POC) for this matter is Kent Friesen at (732) 383-7201 or kent.friesen@parsons.com. Should you have any questions or require additional information, please contact me by phone at (732) 380-7064 or william.r.colvin18.civ@mail.mil.

Linda S. Range, NJDEP
Request for NFA at Multiple Parcel 79 Storage Tanks
08 February 2017
Page 8 of 8

Sincerely,



William R. Colvin, PMP, CHMM, PG
BRAC Environmental Coordinator

cc: Linda Range, NJDEP (3 hard copies)
Delight Balducci, HQDA ACSIM (CD)
Joseph Pearson, Calibre (CD)
James Moore, USACE (CD)
Jim Kelly, USACE (CD)
Cris Grill, Parsons (CD)



New Jersey Department of Environmental Protection
Site Remediation Program

Report Certifications for RCRA GPRA 2020, CERCLA, and Federal Facility Sites

These certifications are to be used for reports submitted for RCRA GPRA 2020, CERCLA, and Federal Facility Sites. The Department has developed guidance for report certifications for RCRA GPRA 2020, CERCLA, and Federal Facility Sites under traditional oversight. The "Person Responsible for Conducting the Remediation Information and Certification" is required to be submitted with each report. For those sites that are required or opt to use a Licensed Site Remediation Professional (LSRP) the report must also be certified by the LSRP using the "Licensed Site Remediation Professional Information and Statement". For additional guidance regarding the requirement for LSRPs at RCRA GPRA 2020, CERCLA and Federal Facility Sites see http://www.nj.gov/dep/srp/srra/training/matrix/quick_ref/rcra_cercla_fed_facility_sites.pdf.

Document: "Request for No Further Action at Multiple Parcel 79 Storage Tanks Site Investigation Report Addendum"

PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: William R. Colvin

Representative First Name: William

Representative Last Name: Colvin

Title: BRAC Environmental Coordinator

Phone Number: (732) 380-7064

Ext: _____

Fax: _____

Mailing Address: P.O. Box 148

City/Town: Oceanport

State: NJ

Zip Code: 07757

Email Address: william.r.colvin18.civ@mail.mil

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

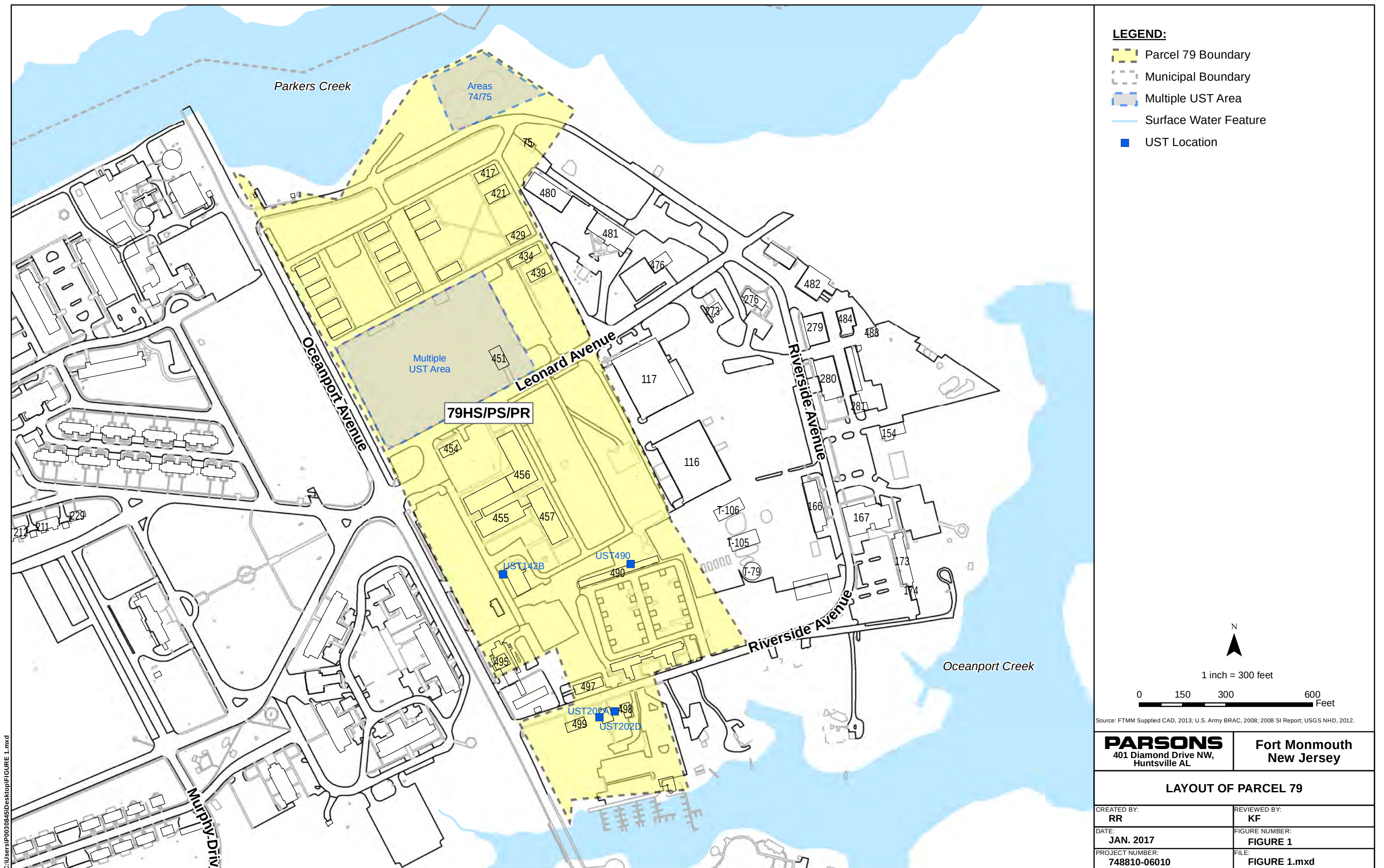
I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: _____

Date: 08 February 2017

Name/Title: William R. Colvin / BRAC Environmental Coordinator

Attachment A
Figures

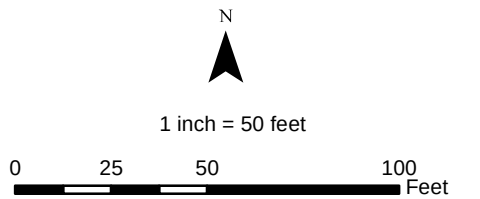


P:\P\T\Projects\Huntsville Cont W912.DY-09.D-0062\FTMMCAD Files\GIS\2016 RI\FIGURE 2.mxd



LEGEND:

- Geoprobe Soil Boring
- ⊕ Temporary Well
- ▬ Parcel 79 Boundary
- - - Municipal Boundary
- Former Above Ground Storage Tank
- ➡ Estimated Groundwater Flow Direction



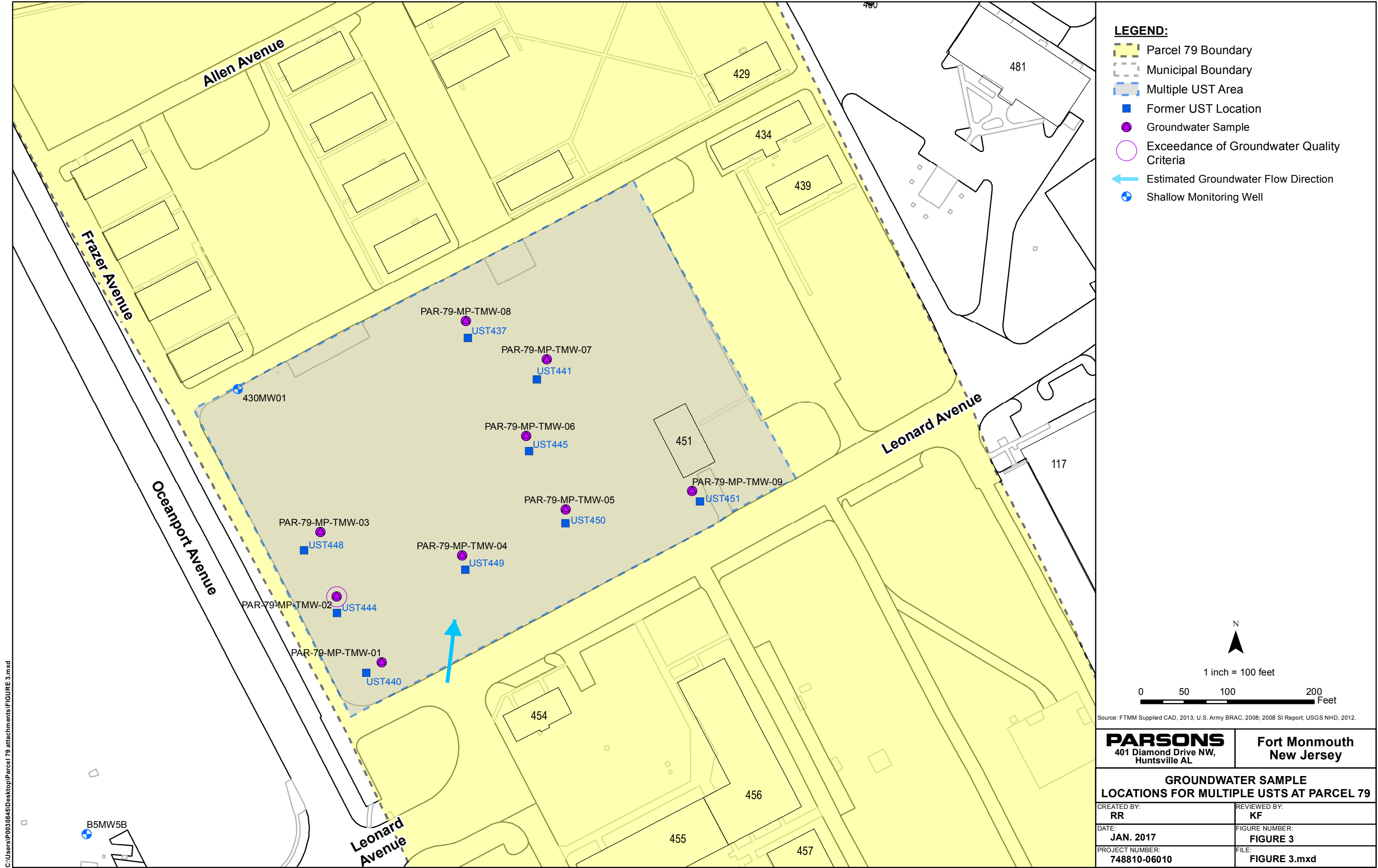
Source: FTMM Supplied CAD, 2013; U.S. Army BRAC, 2008; 2008 SI Report; USGS NHD, 2012.

PARSONS
401 Diamond Drive NW,
Huntsville AL

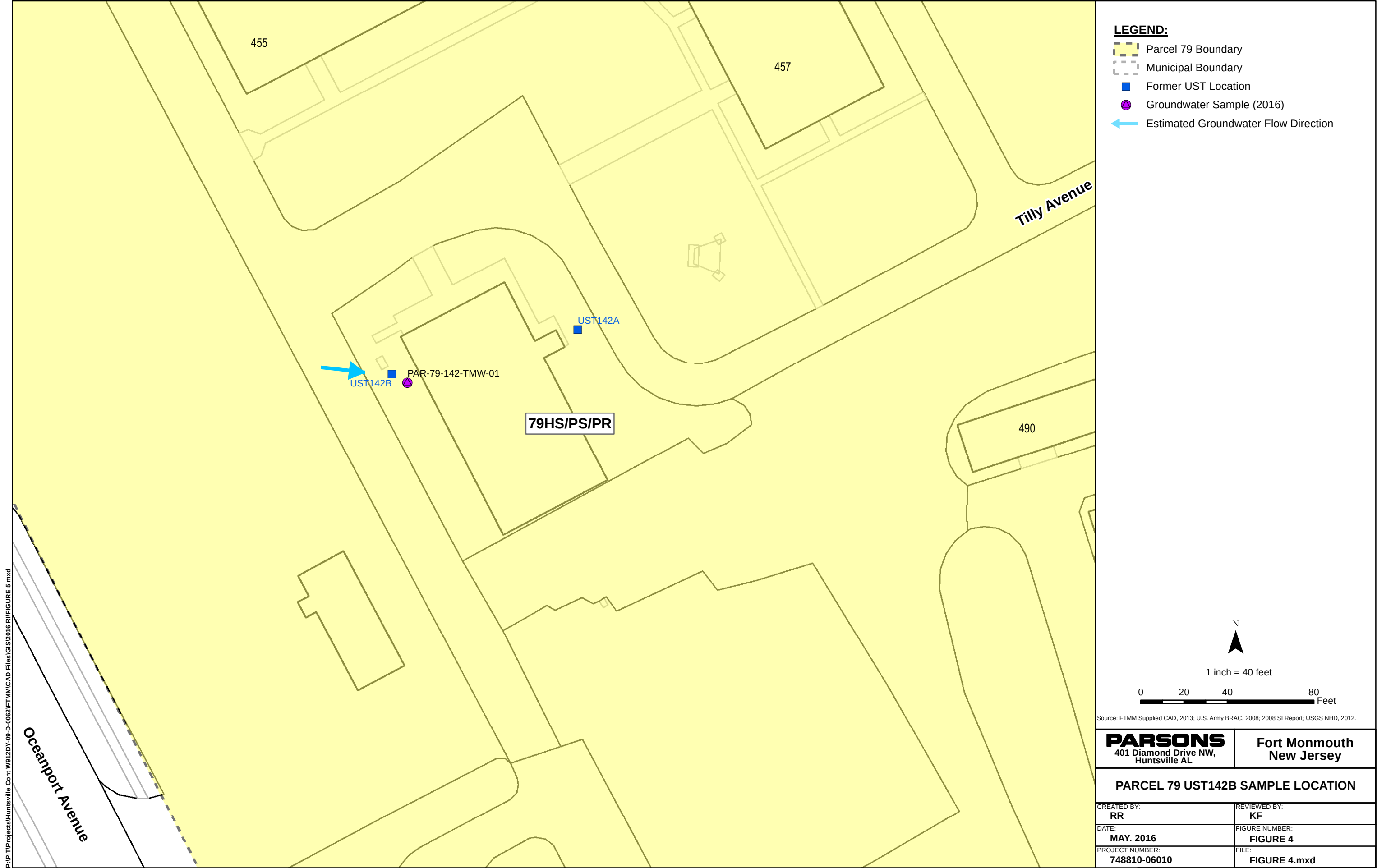
Fort Monmouth
New Jersey

**PARCEL 79 AREA 75
SAMPLE LOCATIONS**

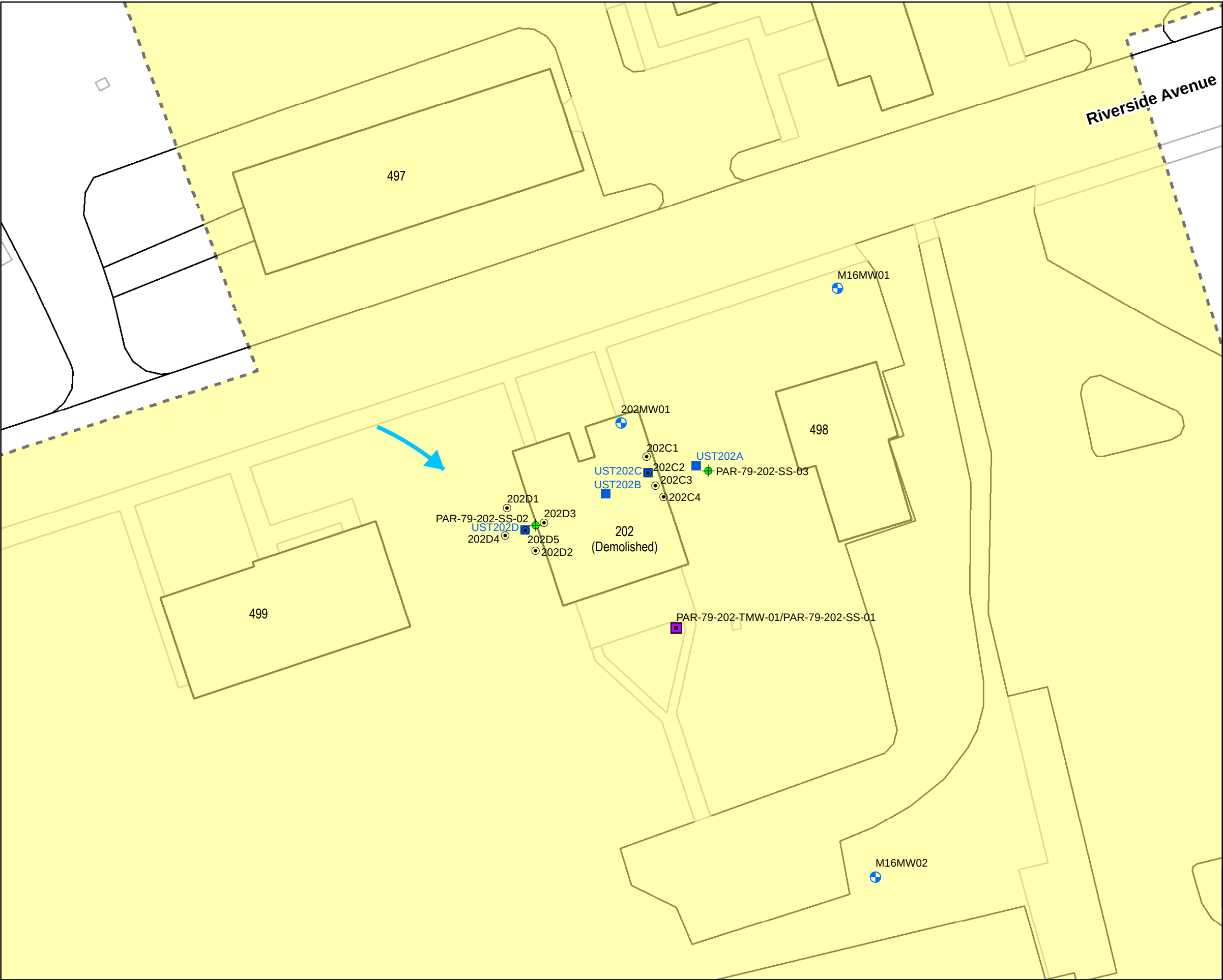
CREATED BY: RR	REVIEWED BY: ME
DATE: MAY. 2016	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 748810-06010	FILE: FIGURE 2.mxd



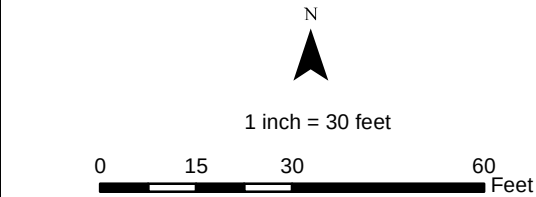
C:\Users\p0030845\Desktop\Parcel 79 attachments\FIGURE 3.mxd



P:\PTT\Projects\Huntsville Cont W912.DY-09.D-0062\FTMMCAD Files\GIS\2016 RI\FIGURE 6.mxd



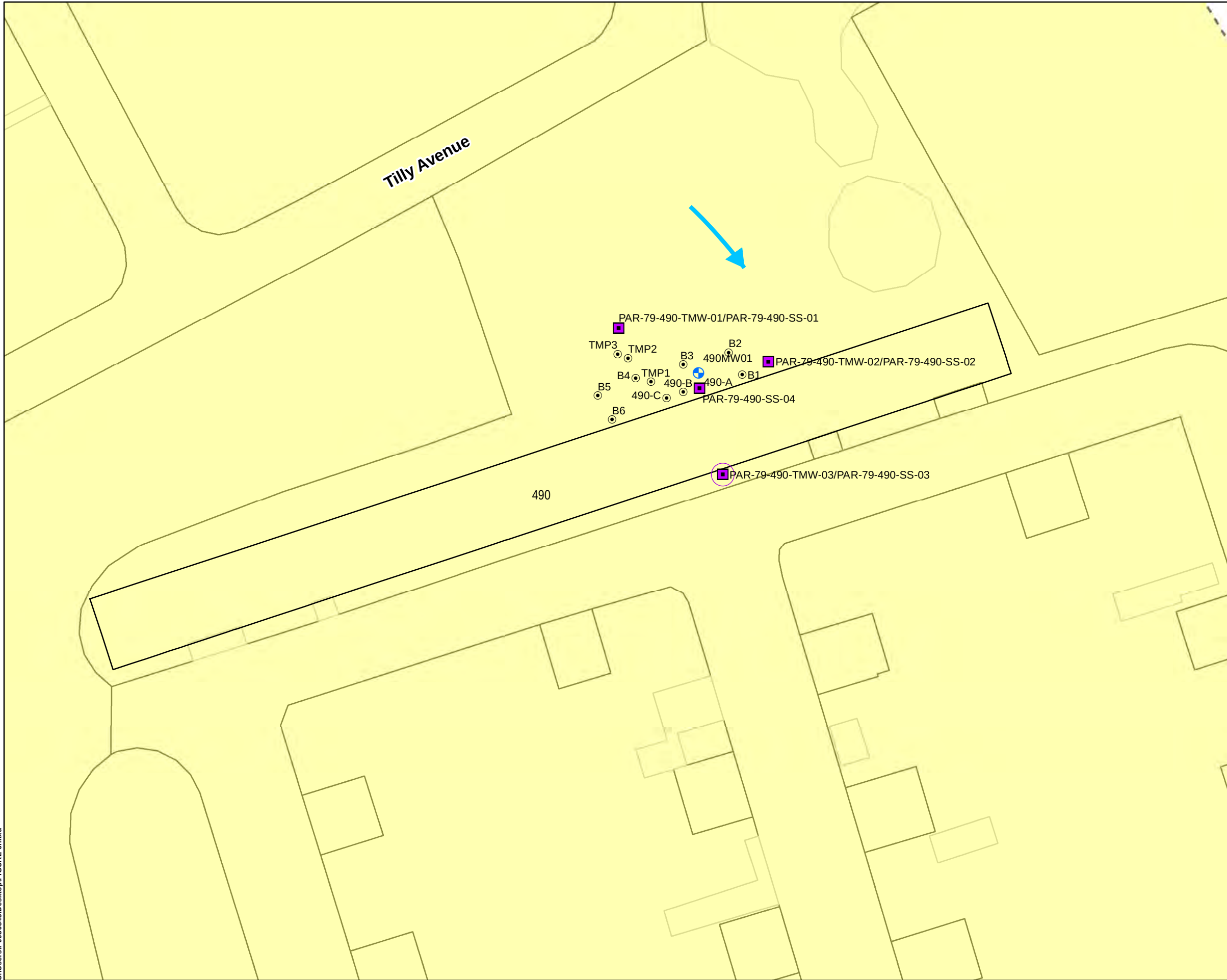
- LEGEND:**
- Parcel 79 Boundary
 - Municipal Boundary
 - Shallow Monitoring Well
 - Former UST Location
 - Soil Sample (2016)
 - Soil and Groundwater Sample (2016)
 - Estimated Groundwater Flow Direction



Source: FTMM Supplied CAD, 2013; U.S. Army BRAC, 2008; 2008 SI Report; USGS NHD, 2012.

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
PARCEL 79 UST202A AND UST202D SAMPLE LOCATIONS	
CREATED BY: RR	REVIEWED BY: KF
DATE: JUN. 2016	FIGURE NUMBER: FIGURE 5
PROJECT NUMBER: 748810-06010	FILE: FIGURE 5.mxd

C:\Users\JP0030845\Desktop\FIGURE 6.mxd



LEGEND:

- Parcel 79 Boundary
- Shallow Monitoring Well
- Former UST Location
- Soil and Groundwater Sample
- Exceedance of Groundwater Quality Criteria
- Historic Soil/Groundwater Sample
- Estimated Groundwater Flow Direction

N

1 inch = 30 feet

0 15 30 60 Feet

Source: FTMM Supplied CAD, 2013; U.S. Army BRAC, 2008; 2008 SI Report; USGS NHD, 2012.

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
Parcel 79 UST490 SAMPLE LOCATIONS	
CREATED BY: RR	REVIEWED BY: KF
DATE: JAN. 2017	FIGURE NUMBER: FIGURE 6
PROJECT NUMBER: 748810-06010	FILE: FIGURE 6.mxd

Attachment B
Validated Laboratory Data Results for Groundwater and Soil, Parcel 79

Attachment B - Table 1
Validated Laboratory Data Results for Groundwater
Parcel 79

Loc ID	NJ Ground Water Quality Criteria	202MW01		490MW01			M16MW02		P79-490-TMW03	P79-MP-TMW01	P79-MP-TMW02
Sample ID		202MW01-14.5	202MW01-9.5	490MW01-14.5	490MW01-19.5	490MW01-9.5	M16MW02-14.5	M16MW02-9.5	PAR-79-490-TMW03	PAR-79-MP-TMW01	PAR-79-MP-TMW02
Sample Date		5/25/2016	5/25/2016	5/25/2016	5/25/2016	5/25/2016	5/25/2016	5/25/2016	8/4/2016	8/3/2016	8/3/2016
Filtered		Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,1,2-Tetrachloroethane	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,1,1-Trichloroethane	30	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,1,2,2-Tetrachloroethane	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,1,2-Trichloroethane	3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.7 J	< 0.75	< 0.75 UJ
1,1-Dichloroethane	50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,1-Dichloroethene	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,1-Dichloropropene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,2,3-Trichlorobenzene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,2,3-Trichloropropane	0.03	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2.5 UJ	< 2.5	< 2.5 UJ
1,2,4-Trichlorobenzene	9	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,2,4-Trimethylbenzene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	4.7 J
1,2-Dibromo-3-chloropropane	0.02	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2.5 UJ	< 2.5	< 2.5 UJ
1,2-Dibromoethane	0.03	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,2-Dichlorobenzene	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,2-Dichloroethane	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,2-Dichloropropane	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,3,5-Trimethylbenzene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	10.9 J
1,3-Dichlorobenzene	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,3-Dichloropropane	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
1,4-Dichlorobenzene	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
2,2-Dichloropropane	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
2-Chlorotoluene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Acetone	6,000	< 5	< 5	5.7	4.8 J	5 J	< 5	< 5	11.4 B	5.5 B	6.5 B
Benzene	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	1.7 J
Bromobenzene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Bromochloromethane	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Bromodichloromethane	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Bromoform	4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Carbon tetrachloride	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Chlorobenzene	50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Chlorodibromomethane	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Chloroethane	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Chloroform	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Cis-1,2-Dichloroethene	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Cis-1,3-Dichloropropene	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Cymene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	2.2 J
Dichlorodifluoromethane	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Ethyl benzene	700	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Hexachlorobutadiene	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Isopropylbenzene	700	< 1	< 1	0.42 J	0.42 J	0.46 J	< 1	< 1	0.41 J	< 0.75	1.3 J
Meta/Para Xylene	1,000	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1.5 UJ	< 1.5	1 J
Methyl bromide	10	< 1	0.44 JB	0.6 J	0.51 J	0.52 J	0.4 JB	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Methyl butyl ketone	300	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 3.8 UJ	< 3.8	< 3.8 UJ
Methyl chloride	100	0.4 J	< 1	< 1	0.48 J	0.58 J	0.35 J	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Methyl ethyl ketone	300	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 3.8 UJ	< 3.8	< 3.8 UJ
Methyl isobutyl ketone	100	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 3.8 UJ	< 3.8	< 3.8 UJ
Methyl Tertbutyl Ether	70	< 1	< 1	< 1	< 1	< 1	0.55 J	0.51 J	< 0.75 UJ	< 0.75	< 0.75 UJ
Methylene chloride	3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ

Attachment B - Table 1
Validated Laboratory Data Results for Groundwater
Parcel 79

Loc ID	NJ Ground Water Quality Criteria	202MW01		490MW01			M16MW02		P79-490-TMW03	P79-MP-TMW01	P79-MP-TMW02
Sample ID		202MW01-14.5	202MW01-9.5	490MW01-14.5	490MW01-19.5	490MW01-9.5	M16MW02-14.5	M16MW02-9.5	PAR-79-490-TMW03	PAR-79-MP-TMW01	PAR-79-MP-TMW02
Sample Date		5/25/2016	5/25/2016	5/25/2016	5/25/2016	5/25/2016	5/25/2016	5/25/2016	8/4/2016	8/3/2016	8/3/2016
Filtered		Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
Naphthalene	300	< 1	< 1	4.2	4.3	4.4	< 1	< 1	7.7 J	< 0.75	96.6 J
n-Butylbenzene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Ortho Xylene	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	1.2 J
p-Chlorotoluene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Propylbenzene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.61 J	< 0.75	< 0.75 UJ
sec-Butylbenzene	100	< 1	< 1	4.6	4.9	4.7	< 1	< 1	6 J	< 0.75	3.9 J
Styrene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Tert Butyl Alcohol	100	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 12.5 UJ	< 12.5	< 12.5 UJ
tert-Butylbenzene	100	< 1	< 1	0.85 J	0.78 J	0.78 J	< 1	< 1	< 0.75 UJ	< 0.75	0.46 J
Tetrachloroethene	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Toluene	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Trans-1,2-Dichloroethene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Trans-1,3-Dichloropropene	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Trichloroethene	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Trichlorofluoromethane	2,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
Vinyl chloride	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.75 UJ	< 0.75	< 0.75 UJ
TIC VOCs (µg/l)											
Total TICs, Volatile	500	NA	NA	20.4 JN	21.5 JN	8.2 JN	NA	NA	171 JN	NA	134.1 JN
Semivolatile Organic Compounds (µg/l)											
1,2,4-Trichlorobenzene	9	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
1,2-Dichlorobenzene	600	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
1,2-Diphenylhydrazine	20	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
1,3-Dichlorobenzene	600	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
1,4-Dichlorobenzene	75	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
2,4,5-Trichlorophenol	700	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 2.8	< 2.9	< 2.9
2,4,6-Trichlorophenol	20	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96
2,4-Dichlorophenol	20	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96
2,4-Dimethylphenol	100	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 4.6	< 4.8	< 4.8
2,4-Dinitrophenol	40	< 14.8 UJ	< 18.6 UJ	< 16.6 UJ	< 16.2 UJ	< 17.3 UJ	< 17.6 UJ	< 16.8 UJ	< 7.4	< 7.7	< 7.7
2,4-Dinitrotoluene	10	< 0.046	< 0.058	< 0.052	< 0.051	< 0.054	< 0.055	< 0.053	< 0.93	NA	NA
2,6-Dinitrotoluene	10	< 0.046	< 0.058	< 0.052	< 0.051	< 0.054	< 0.055	< 0.053	< 0.93	NA	NA
2-Chloronaphthalene	600	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
2-Chlorophenol	40	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 1.9	< 1.9	< 1.9
2-Methylnaphthalene	30	< 1.9	< 2.3	< 2.1	< 2	< 2.2	< 2.2	< 2.1	63.5	< 0.96	30.6 J
2-Methylphenol	100	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96
2-Nitroaniline	100	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
2-Nitrophenol	100	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 1.9	< 1.9	< 1.9
3,3'-Dichlorobenzidine	30	< 14.8	< 18.6	< 16.6	< 16.2	< 17.3	< 17.6	< 16.8	< 2.8	< 2.9	< 2.9 UJ
3-Nitroaniline	100	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 1.9	< 1.9	< 1.9 UJ
4,6-Dinitro-2-methylphenol	1	< 7.4 UJ	< 9.3 UJ	< 8.3 UJ	< 8.1 UJ	< 8.6 UJ	< 8.8 UJ	< 8.4 UJ	< 4.6	< 4.8	< 4.8
4-Bromophenyl phenyl ether	100	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
4-Chloro-3-methylphenol	100	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96
4-Chloroaniline	30	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
4-Chlorophenyl phenyl ether	100	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
4-Nitroaniline	5	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
4-Nitrophenol	100	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 4.6	< 4.8	< 4.8
Acenaphthene	400	< 0.046	< 0.058	1.1	1.1	1.2	0.012 J	< 0.053	< 0.93	0.012 J	0.97 J
Acenaphthylene	100	< 0.046	< 0.058	0.14	0.14	0.17	< 0.055	< 0.053	< 0.93	0.022 J	< 0.038 UJ
Anthracene	2,000	< 0.046	< 0.058	0.13	0.13	0.14	< 0.055	< 0.053	8.2	0.029 J	0.39 J

Attachment B - Table 1
Validated Laboratory Data Results for Groundwater
Parcel 79

Loc ID	NJ Ground Water Quality Criteria	202MW01		490MW01			M16MW02		P79-490-TMW03	P79-MP-TMW01	P79-MP-TMW02
Sample ID		202MW01-14.5	202MW01-9.5	490MW01-14.5	490MW01-19.5	490MW01-9.5	M16MW02-14.5	M16MW02-9.5	PAR-79-490-TMW03	PAR-79-MP-TMW01	PAR-79-MP-TMW02
Sample Date		5/25/2016	5/25/2016	5/25/2016	5/25/2016	5/25/2016	5/25/2016	5/25/2016	8/4/2016	8/3/2016	8/3/2016
Filtered		Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
Benzidine	20	< 27.8	< 34.9	< 31.1	< 30.3	< 32.4	< 33	< 31.6	< 27.8 UJ	< 28.7 UJ	< 28.7 UJ
Benzo(a)anthracene	0.1	< 0.046	< 0.058	< 0.052	< 0.051	< 0.054	0.04 J	< 0.053	< 0.93	0.23 J	0.27 J
Benzo(a)pyrene	0.1	< 0.046	< 0.058	< 0.052	< 0.051	< 0.054	< 0.055	< 0.053	< 0.93	0.13 B	0.14 JB
Benzo(b)fluoranthene	0.2	< 0.046	< 0.058	< 0.052	< 0.051	< 0.054	0.041 J	< 0.053	< 0.93	0.2 J	0.2 J
Benzo(ghi)perylene	100	< 0.046	< 0.058	< 0.052	< 0.051	< 0.054	< 0.055	< 0.053	< 0.93	0.081 B	0.082 JB
Benzo(k)fluoranthene	0.5	< 0.046	< 0.058	< 0.052	< 0.051	< 0.054	< 0.055	< 0.053	< 0.93	0.07 B	0.078 JB
Benzyl alcohol	2,000	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 1.9	< 1.9	< 1.9
Bis(2-Chloroethoxy)methane	100	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
Bis(2-Chloroethyl)ether	7	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
Bis(2-Chloroisopropyl)ether	300	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
Bis(2-Ethylhexyl)phthalate	3	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
Butyl benzyl phthalate	100	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	0.15 J
Carbazole	100	< 7.4	< 9.3	2.4 J	2.6 J	2.5 J	< 8.8	< 8.4	< 0.93	< 0.96	1.2 J
Chrysene	5	0.016 J	< 0.058	< 0.052	< 0.051	< 0.054	0.056	< 0.053	< 0.93	0.19 J	0.2 J
Cresol	NLE	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96
Dibenz(a,h)anthracene	0.3	< 0.046	< 0.058	< 0.052	< 0.051	< 0.054	< 0.055	< 0.053	< 0.93	< 0.038	0.043 JB
Dibenzofuran	100	< 7.4	< 9.3	3.5 J	3.6 J	3.3 J	< 8.8	< 8.4	< 0.93	< 0.96	2.5 J
Diethyl phthalate	6,000	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	0.18 J	< 0.96 UJ
Dimethyl phthalate	100	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
Di-n-butylphthalate	700	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	0.14 J	< 0.96 UJ
Di-n-octylphthalate	100	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	0.099 J
Fluoranthene	300	0.02 J	0.022 J	< 0.052	< 0.051	< 0.054	0.1	< 0.053	< 0.93	0.59	0.89 J
Fluorene	300	< 0.046	< 0.058	2.2	2.2	2.5	0.03 J	< 0.053	< 0.93	0.033 J	3.2 J
Hexachlorobenzene	0.02	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
Hexachlorobutadiene	1	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
Hexachlorocyclopentadiene	40	< 7.4 UJ	< 9.3 UJ	< 8.3 UJ	< 8.1 UJ	< 8.6 UJ	< 8.8 UJ	< 8.4 UJ	< 1.9	< 1.9	< 1.9 UJ
Hexachloroethane	7	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
Indeno(1,2,3-cd)pyrene	0.2	< 0.046	< 0.058	< 0.052	< 0.051	< 0.054	< 0.055	< 0.053	< 0.93	0.11 J	0.11 J
Isophorone	40	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
Naphthalene	300	< 0.046	< 0.058	0.83	0.83	0.83	0.051 J	< 0.053	< 0.93	< 0.038	23.8 J
Nitrobenzene	6	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 1.9	< 1.9	< 1.9 UJ
N-Nitrosodimethylamine	0.8	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 1.9	< 1.9	< 1.9 UJ
N-Nitroso-di-n-propylamine	10	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96 UJ
N-Nitrosodiphenylamine	10	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 1.9	< 1.9	< 1.9 UJ
Pentachlorophenol	0.3	< 14.8	< 18.6	< 16.6	< 16.2	< 17.3	< 17.6	< 16.8	< 7.4	< 0.96 UJ	< 0.96 UJ
Phenanthrene	100	< 0.046	< 0.058	0.5	0.49	0.5	0.091	< 0.053	72.4	0.23 J	5.8 J
Phenol	2,000	< 7.4	< 9.3	< 8.3	< 8.1	< 8.6	< 8.8	< 8.4	< 0.93	< 0.96	< 0.96
Pyrene	200	0.014 J	< 0.058	< 0.052	< 0.051	< 0.054	0.069	< 0.053	7.1	0.29 J	0.69 J
TIC SVOCs (µg/l)											
Total TICs, Semi-Volatile	500	NA	NA	NA	38.6 JN	36.7 JN	NA	NA	1323.1 JN	414.4 JN	1757.9 JN

Attachment B - Table 1
Validated Laboratory Data Results for Groundwater
Parcel 79

Loc ID	NJ Ground Water Quality Criteria	P79-MP-TMW03	P79-MP-TMW04	P79-MP-TMW05	P79-MP-TMW06	P79-MP-TMW07	P79-MP-TMW08	P79-MP-TMW09	PAR-79-142-TMW01	PAR-79-202-TMW01
Sample ID		PAR-79-MP-TMW03	PAR-79-MP-TMW04	PAR-79-MP-TMW05	PAR-79-MP-TMW06	PAR-79-MP-TMW07	PAR-79-MP-TMW08	PAR-79-MP-TMW09	PAR-79-142-TMW01	PAR-79-202-TMW01
Sample Date		8/4/2016	8/4/2016	8/4/2016	8/4/2016	8/4/2016	8/4/2016	8/4/2016	8/5/2016	8/5/2016
Filtered		Total	Total	Total	Total	Total	Total	Total	Total	Total
Naphthalene	300	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
n-Butylbenzene	100	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
Ortho Xylene	1,000	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
p-Chlorotoluene	100	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
Propylbenzene	100	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
sec-Butylbenzene	100	< 0.75	0.34 J	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
Styrene	100	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
Tert Butyl Alcohol	100	< 12.5	< 12.5 UJ	< 12.5	< 12.5	< 12.5	< 12.5	< 12.5	< 12.5 UJ	< 12.5
tert-Butylbenzene	100	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
Tetrachloroethene	1	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
Toluene	600	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
Trans-1,3-Dichloropropene	1	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
Trichloroethene	1	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
Trichlorofluoromethane	2,000	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
Vinyl chloride	1	< 0.75	< 0.75 UJ	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75 UJ	< 0.75
TIC VOCs (µg/l)										
Total TICs, Volatile	500	NA	1	NA	NA	NA	NA	NA	1.5 JN	NA
Semivolatile Organic Compounds (µg/l)										
1,2,4-Trichlorobenzene	9	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
1,2-Dichlorobenzene	600	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
1,2-Diphenylhydrazine	20	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
1,3-Dichlorobenzene	600	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
1,4-Dichlorobenzene	75	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
2,4,5-Trichlorophenol	700	< 3	< 2.9	< 2.8	< 3	< 2.9	< 3.3	< 3.2	< 15 UJ	< 2.9
2,4,6-Trichlorophenol	20	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
2,4-Dichlorophenol	20	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
2,4-Dimethylphenol	100	< 5	< 4.8	< 4.6	< 5	< 4.9	< 5.6	< 5.3	< 25 UJ	< 4.8
2,4-Dinitrophenol	40	< 7.9	< 7.6	< 7.4	< 8	< 7.8	< 8.9	< 8.6	< 40 UJ	< 7.7
2,4-Dinitrotoluene	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	600	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
2-Chlorophenol	40	< 2	< 1.9	< 1.9	< 2	< 2	< 2.2	< 2.1	< 10 UJ	< 1.9
2-Methylnaphthalene	30	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	2.9 J	< 0.96
2-Methylphenol	100	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
2-Nitroaniline	100	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
2-Nitrophenol	100	< 2	< 1.9	< 1.9	< 2	< 2	< 2.2	< 2.1	< 10 UJ	< 1.9
3,3'-Dichlorobenzidine	30	< 3	< 2.9	< 2.8	< 3	< 2.9	< 3.3	< 3.2	< 15 UJ	< 2.9
3-Nitroaniline	100	< 2	< 1.9	< 1.9	< 2	< 2	< 2.2	< 2.1	< 10 UJ	< 1.9
4,6-Dinitro-2-methylphenol	1	< 5	< 4.8	< 4.6	< 5	< 4.9	< 5.6	< 5.3	< 25 UJ	< 4.8
4-Bromophenyl phenyl ether	100	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
4-Chloro-3-methylphenol	100	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
4-Chloroaniline	30	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
4-Chlorophenyl phenyl ether	100	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
4-Nitroaniline	5	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
4-Nitrophenol	100	< 5	< 4.8	< 4.6	< 5	< 4.9	< 5.6	< 5.3	< 25 UJ	< 4.8
Acenaphthene	400	< 0.04	0.012 J	< 0.037	0.026 J	0.018 J	< 0.044	< 0.043	0.27 J	< 0.038
Acenaphthylene	100	< 0.04	0.04 J	< 0.037	< 0.04	0.2 J	< 0.044	0.025 J	8.1 J	0.2 J
Anthracene	2,000	< 0.04	0.096	< 0.037	< 0.04	0.081	< 0.044	< 0.043	4.5 J	0.016 J

Attachment B - Table 1
Validated Laboratory Data Results for Groundwater
Parcel 79

Loc ID	NJ Ground Water Quality Criteria	P79-MP-TMW03	P79-MP-TMW04	P79-MP-TMW05	P79-MP-TMW06	P79-MP-TMW07	P79-MP-TMW08	P79-MP-TMW09	PAR-79-142-TMW01	PAR-79-202-TMW01
Sample ID		PAR-79-MP-TMW03	PAR-79-MP-TMW04	PAR-79-MP-TMW05	PAR-79-MP-TMW06	PAR-79-MP-TMW07	PAR-79-MP-TMW08	PAR-79-MP-TMW09	PAR-79-142-TMW01	PAR-79-202-TMW01
Sample Date		8/4/2016	8/4/2016	8/4/2016	8/4/2016	8/4/2016	8/4/2016	8/4/2016	8/5/2016	8/5/2016
Filtered		Total	Total	Total	Total	Total	Total	Total	Total	Total
Benzidine	20	< 29.7 UJ	< 28.6 UJ	< 27.8 UJ	< 29.9 UJ	< 29.4 UJ	< 33.3 UJ	< 32.1 UJ	< 150 UJ	< 28.8
Benzo(a)anthracene	0.1	0.043 J	0.25 J	< 0.037	0.021 J	0.34 J	< 0.044	0.18 J	8.5 J	0.19 J
Benzo(a)pyrene	0.1	0.043 JB	0.13 B	< 0.037	< 0.04	0.29 J	< 0.044	0.081 B	14.9 J	0.057
Benzo(b)fluoranthene	0.2	0.066 B	0.22 J	< 0.037	< 0.04	0.31 J	0.027 JB	0.12 B	19.4 J	0.13 J
Benzo(ghi)perylene	100	< 0.04	0.087 B	< 0.037	< 0.04	0.17 B	< 0.044	0.046 JB	12.6 J	0.044 J
Benzo(k)fluoranthene	0.5	0.028 JB	0.073 B	< 0.037	< 0.04	0.1 B	< 0.044	0.042 JB	7.5 J	< 0.038
Benzyl alcohol	2,000	< 2	< 1.9	< 1.9	< 2	< 2	< 2.2	< 2.1	< 10 UJ	< 1.9
Bis(2-Chloroethoxy)methane	100	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
Bis(2-Chloroethyl)ether	7	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
Bis(2-Chloroisopropyl)ether	300	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
Bis(2-Ethylhexyl)phthalate	3	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	0.33 J
Butyl benzyl phthalate	100	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	0.12 J	0.65 J	< 0.96
Carbazole	100	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	1.5 J	< 0.96
Chrysene	5	0.054	0.15	< 0.037	0.022 J	0.3 J	0.029 J	0.1	13.5 J	0.066
Cresol	NLE	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
Dibenz(a,h)anthracene	0.3	< 0.04	0.023 JB	< 0.037	< 0.04	0.048 JB	< 0.044	< 0.043	2.9 J	< 0.038
Dibenzofuran	100	< 0.99	0.29 J	< 0.93	< 1	< 0.98	< 1.1	< 1.1	0.75 J	< 0.96
Diethyl phthalate	6,000	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	0.28 J
Dimethyl phthalate	100	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
Di-n-butylphthalate	700	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	0.71 J	0.28 J
Di-n-octylphthalate	100	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
Fluoranthene	300	0.464	0.74	0.637	0.35	0.78	0.488 J	0.57	17.7 J	0.652
Fluorene	300	< 0.04	0.13 B	0.016 JB	0.017 JB	0.05 B	< 0.044	0.018 JB	0.77 J	0.024 J
Hexachlorobenzene	0.02	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
Hexachlorobutadiene	1	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
Hexachlorocyclopentadiene	40	< 2	< 1.9	< 1.9	< 2	< 2	< 2.2	< 2.1	< 10 UJ	< 1.9
Hexachloroethane	7	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
Indeno(1,2,3-cd)pyrene	0.2	< 0.05	0.099 J	< 0.046	< 0.05	0.2 J	< 0.056	0.047 JB	11.9 J	0.042 J
Isophorone	40	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
Naphthalene	300	0.05	0.1	< 0.037	< 0.04	0.062	< 0.044	< 0.043	3.3 J	< 0.038
Nitrobenzene	6	< 2	< 1.9	< 1.9	< 2	< 2	< 2.2	< 2.1	< 10 UJ	< 1.9
N-Nitrosodimethylamine	0.8	< 2	< 1.9	< 1.9	< 2	< 2	< 2.2	< 2.1	< 10 UJ	< 1.9
N-Nitroso-di-n-propylamine	10	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
N-Nitrosodiphenylamine	10	< 2	< 1.9	< 1.9	< 2	< 2	< 2.2	< 2.1	< 10 UJ	< 1.9
Pentachlorophenol	0.3	< 0.99 UJ	< 0.95 UJ	< 0.93 UJ	< 1 UJ	< 0.98 UJ	< 1.1 UJ	< 1.1 UJ	< 5 UJ	< 0.96
Phenanthrene	100	0.061 B	0.34 J	0.026 JB	0.13 J	0.2 J	0.038 JB	0.093 B	8.7 J	0.075
Phenol	2,000	< 0.99	< 0.95	< 0.93	< 1	< 0.98	< 1.1	< 1.1	< 5 UJ	< 0.96
Pyrene	200	0.076	0.37 J	< 0.037	0.037 J	0.45 J	0.05 J	0.14	18.4 J	0.083
TIC SVOCs (µg/l)										
Total TICs, Semi-Volatile	500	NA	79.6 JN	11.9 J	33.3 JN	45.7 JN	19.7 JN	96.8 JN	253.7 JN	144.6 JN

Attachment B - Table 1
Validated Laboratory Data Results for Groundwater
Parcel 79

Loc ID	NJ Ground Water Quality Criteria	PAR-79-490-TMW01	PAR-79-490-TMW02	PAR-79-A75-TMW01		PAR-79-A75-TMW02
Sample ID		PAR-79-490-TMW01	PAR-79-490-TMW02	PAR-79-A75-TMW01	PAR-79-A75-TMW101	PAR-79-A75-TMW02
Sample Date		8/5/2016	8/5/2016	8/5/2016	8/5/2016	8/5/2016
Filtered		Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)						
1,1,1,2-Tetrachloroethane	1	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,1,1-Trichloroethane	30	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,1,2,2-Tetrachloroethane	1	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,1,2-Trichloroethane	3	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,1-Dichloroethane	50	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,1-Dichloroethene	1	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,1-Dichloropropene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,2,3-Trichlorobenzene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,2,3-Trichloropropane	0.03	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2,4-Trichlorobenzene	9	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,2,4-Trimethylbenzene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,2-Dibromo-3-chloropropane	0.02	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-Dibromoethane	0.03	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,2-Dichlorobenzene	600	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,2-Dichloroethane	2	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,2-Dichloropropane	1	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,3,5-Trimethylbenzene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,3-Dichlorobenzene	600	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,3-Dichloropropane	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
1,4-Dichlorobenzene	75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
2,2-Dichloropropane	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
2-Chlorotoluene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Acetone	6,000	19.3 B	4.3 JB	5.4 B	< 3.8 UJ	28.1 B
Benzene	1	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Bromobenzene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Bromochloromethane	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Bromodichloromethane	1	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Bromoform	4	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Carbon tetrachloride	1	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Chlorobenzene	50	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Chlorodibromomethane	1	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Chloroethane	5	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Chloroform	70	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Cis-1,2-Dichloroethene	70	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Cis-1,3-Dichloropropene	1	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Cymene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Dichlorodifluoromethane	1,000	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Ethyl benzene	700	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Hexachlorobutadiene	1	< 0.75	< 0.75	< 0.75 UJ	< 0.75	< 0.75
Isopropylbenzene	700	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Meta/Para Xylene	1,000	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Methyl bromide	10	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Methyl butyl ketone	300	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
Methyl chloride	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Methyl ethyl ketone	300	3.2 J	< 3.8	< 3.8	< 3.8	4.1 J
Methyl isobutyl ketone	100	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
Methyl Tertbutyl Ether	70	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Methylene chloride	3	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75

Attachment B - Table 1
Validated Laboratory Data Results for Groundwater
Parcel 79

Loc ID	NJ Ground Water Quality Criteria	PAR-79-490-TMW01	PAR-79-490-TMW02	PAR-79-A75-TMW01		PAR-79-A75-TMW02
Sample ID		PAR-79-490-TMW01	PAR-79-490-TMW02	PAR-79-A75-TMW01	PAR-79-A75-TMW101	PAR-79-A75-TMW02
Sample Date		8/5/2016	8/5/2016	8/5/2016	8/5/2016	8/5/2016
Filtered		Total	Total	Total	Total	Total
Naphthalene	300	< 0.75	0.51 J	< 0.75	< 0.75	< 0.75
n-Butylbenzene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Ortho Xylene	1,000	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
p-Chlorotoluene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Propylbenzene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
sec-Butylbenzene	100	< 0.75	0.51 J	< 0.75	< 0.75	< 0.75
Styrene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Tert Butyl Alcohol	100	< 12.5	< 12.5	< 12.5	< 12.5	< 12.5
tert-Butylbenzene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Tetrachloroethene	1	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Toluene	600	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Trans-1,3-Dichloropropene	1	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Trichloroethene	1	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Trichlorofluoromethane	2,000	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Vinyl chloride	1	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
TIC VOCs (µg/l)						
Total TICs, Volatile	500	NA	8.1 JN	NA	NA	NA
Semivolatile Organic Compounds (µg/l)						
1,2,4-Trichlorobenzene	9	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
1,2-Dichlorobenzene	600	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
1,2-Diphenylhydrazine	20	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
1,3-Dichlorobenzene	600	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
1,4-Dichlorobenzene	75	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
2,4,5-Trichlorophenol	700	< 2.9	< 2.9	< 3.1	< 3.2	< 5
2,4,6-Trichlorophenol	20	< 0.98	< 0.96	< 1	< 1.1	< 1.7
2,4-Dichlorophenol	20	< 0.98	< 0.96	< 1	< 1.1	< 1.7
2,4-Dimethylphenol	100	< 4.9	< 4.8	< 5.2	< 5.3	< 8.4
2,4-Dinitrophenol	40	< 7.8	< 7.7	< 8.3	< 8.5	< 13.4
2,4-Dinitrotoluene	10	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	10	NA	NA	NA	NA	NA
2-Chloronaphthalene	600	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
2-Chlorophenol	40	< 2	< 1.9	< 2.1	< 2.1	< 3.4
2-Methylnaphthalene	30	0.69 J	< 0.96	0.28 J	< 1.1	< 1.7
2-Methylphenol	100	< 0.98	< 0.96	< 1	< 1.1	< 1.7
2-Nitroaniline	100	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
2-Nitrophenol	100	< 2	< 1.9	< 2.1	< 2.1	< 3.4
3,3'-Dichlorobenzidine	30	< 2.9	< 2.9	< 3.1 UJ	< 3.2	< 5
3-Nitroaniline	100	< 2	< 1.9	< 2.1 UJ	< 2.1	< 3.4
4,6-Dinitro-2-methylphenol	1	< 4.9	< 4.8	< 5.2	< 5.3	< 8.4
4-Bromophenyl phenyl ether	100	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
4-Chloro-3-methylphenol	100	< 0.98	< 0.96	< 1	< 1.1	< 1.7
4-Chloroaniline	30	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
4-Chlorophenyl phenyl ether	100	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
4-Nitroaniline	5	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
4-Nitrophenol	100	< 4.9	< 4.8	< 5.2	< 5.3	< 8.4
Acenaphthene	400	0.089	0.68 J	0.32 J	0.065 J	0.24
Acenaphthylene	100	0.028 J	0.6 J	0.15 J	0.02 J	0.026 J
Anthracene	2,000	0.026 J	0.61 J	1.1 J	0.16 J	0.12

Attachment B - Table 1
Validated Laboratory Data Results for Groundwater
Parcel 79

Loc ID	NJ Ground Water Quality Criteria	PAR-79-490-TMW01	PAR-79-490-TMW02	PAR-79-A75-TMW01		PAR-79-A75-TMW02
Sample ID		PAR-79-490-TMW01	PAR-79-490-TMW02	PAR-79-A75-TMW01	PAR-79-A75-TMW101	PAR-79-A75-TMW02
Sample Date		8/5/2016	8/5/2016	8/5/2016	8/5/2016	8/5/2016
Filtered		Total	Total	Total	Total	Total
Benzidine	20	< 29.4	< 28.7	< 31.1 UJ	< 31.9	< 50.4
Benzo(a)anthracene	0.1	0.14 J	0.26 J	5.3 J	0.64 J	0.43 J
Benzo(a)pyrene	0.1	0.023 JB	0.061	5.6 J	0.57 J	0.28
Benzo(b)fluoranthene	0.2	< 0.039	0.21 J	7.5 J	0.78 J	0.38
Benzo(ghi)perylene	100	< 0.039	0.045 J	4 J	0.4 J	0.18
Benzo(k)fluoranthene	0.5	< 0.039	0.031 J	2.7 J	0.26 J	< 0.067
Benzyl alcohol	2,000	< 2	< 1.9	< 2.1 UJ	< 2.1	< 3.4
Bis(2-Chloroethoxy)methane	100	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
Bis(2-Chloroethyl)ether	7	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
Bis(2-Chloroisopropyl)ether	300	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
Bis(2-Ethylhexyl)phthalate	3	< 0.98	0.35 J	< 1 UJ	< 1.1	< 1.7
Butyl benzyl phthalate	100	< 0.98	0.16 J	< 1 UJ	< 1.1	< 1.7
Carbazole	100	< 0.98	< 0.96	0.36 J	< 1.1	< 1.7
Chrysene	5	0.048 J	0.25 J	5.3 J	0.52 J	0.3
Cresol	NLE	< 0.98	< 0.96	< 1	< 1.1	< 1.7
Dibenz(a,h)anthracene	0.3	< 0.039	< 0.038	0.92 J	0.094 J	0.05 J
Dibenzofuran	100	0.22 J	0.73 J	0.39 J	< 1.1	< 1.7
Diethyl phthalate	6,000	< 0.98	< 0.96	1.8 J	0.88 J	0.48 J
Dimethyl phthalate	100	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
Di-n-butylphthalate	700	< 0.98	0.33 J	< 1 UJ	0.24 J	0.38 J
Di-n-octylphthalate	100	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
Fluoranthene	300	0.379	0.9	10.3 J	1.9 J	1.94
Fluorene	300	0.13	2.2	0.33 J	0.063 J	0.16
Hexachlorobenzene	0.02	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
Hexachlorobutadiene	1	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
Hexachlorocyclopentadiene	40	< 2	< 1.9	< 2.1 UJ	< 2.1	< 3.4
Hexachloroethane	7	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
Indeno(1,2,3-cd)pyrene	0.2	< 0.049	0.13 J	4.3 J	0.45 J	0.2
Isophorone	40	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
Naphthalene	300	0.12	< 0.038	0.44 J	0.07 J	0.12
Nitrobenzene	6	< 2	< 1.9	< 2.1 UJ	< 2.1	< 3.4
N-Nitrosodimethylamine	0.8	< 2	< 1.9	< 2.1 UJ	< 2.1	< 3.4
N-Nitroso-di-n-propylamine	10	< 0.98	< 0.96	< 1 UJ	< 1.1	< 1.7
N-Nitrosodiphenylamine	10	< 2	< 1.9	< 2.1 UJ	< 2.1	< 3.4
Pentachlorophenol	0.3	< 0.98	< 0.96	< 1	< 1.1	< 1.7
Phenanthrene	100	0.29 J	1.1 J	3.4 J	0.47 J	0.44 J
Phenol	2,000	< 0.98	< 0.96	< 1	< 1.1	< 1.7
Pyrene	200	0.053	0.65 J	9.2 J	1.1 J	0.5 J
TIC SVOCs (µg/l)						
Total TICs, Semi-Volatile	500	9.9 JN	171.7 JN	9 JN	55 J	46.2 JN

Footnote:

- 1) All historical data collected prior to 2013 are reported as provided by others.
- 2) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.
- 3) NLE = no limit established.
- 4) ND = not detected in any background sample, no background concentration available.
- 5) Bold chemical detection
- 6) SS = Site Specific action level, see "Specific Chemical Class (or Parameter)" footnote for details.

7) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

J = estimated detected value due to a concentration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

B = Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

E (or ER) = Estimated result.

R = Rejected, data validation rejected the results.

D = Results from dilution of sample.

U = non-detect, i.e. not detected at or above this value.

J-DL = Elevated sample detection limit due to difficult sample matrix.

U-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

8) Specific Chemical Classes (or Parameters) comments or notes regarding how data is displayed, compared to Action Levels, or represented in this table.

9) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Ground Water Quality Criteria

####

NJDEP Interim Specific GWQC values are presented for the NJ GWQS where there is not a Specific Ground Water Quality Criteria. A full list of compounds is available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).

NJDEP Interim Generic GWQC values are presented for the NJ GWQS where there is not a XXXXX or a NJDEP Interim Specific GWQC. Available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).

10) Criteria action level source document and web address.

- The NJ Ground Water Quality Criteria refers to the NJDEP Groundwater Quality Standards - Adopted July 22, 2010

<http://www.state.nj.us/dep/wms/bwqsa/docs/njac79C.pdf>

Attachment B - Table 2
Validated Laboratory Data Results for Soil
Parcel 79

Sample ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				PAR-79-202-SB-01	PAR-79-202-SB-01	PAR-79-202-SB-01	PAR-79-202-SB-02	PAR-79-202-SB-02	PAR-79-202-SB-02-8	PAR-79-202-SB-03	PAR-79-202-SB-03	PAR-79-202-SB-03	PAR-79-202-SB-03	PAR-79-490-SB-01	PAR-79-490-SB-01
Depth				2-2.5	3-3.5	9.5-10	3.5-4	3-3.5	8-8.5	2-2.5	3-3.5	9.5-10	1.5-2	2-2.5	9.5-10
Sample Date				4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016
Semivolatile Organic Compounds (µg/kg)															
2-Methylnaphthalene	230,000	2,400,000	8,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)															
C10-C12 Aromatics	NLE	NLE	NLE	0.86 JB	< 0.57	1.3 JB	1.7 B	1.2 JB	0.9 JB	0.64 JB	< 0.55	0.93 JB	0.74 JB	0.66 JB	< 0.59
C12-C16 Aliphatics	NLE	NLE	NLE	< 0.5 UJ	< 0.54 UJ	1.8 J	106	< 0.54 UJ	< 0.54 UJ	< 0.51	< 0.52	< 0.61 UJ	< 0.46 UJ	< 0.48 UJ	< 0.56 UJ
C12-C16 Aromatics	NLE	NLE	NLE	0.66 J	0.34 J	0.81 J	33.3	1.7	0.56 J	0.76 J	0.32 J	0.64 J	0.31 J	0.24 J	0.31 J
C16-C21 Aliphatics	NLE	NLE	NLE	< 0.49 UJ	< 0.53 UJ	1.6 J	90.2	0.72 J	< 0.53 UJ	0.51 J	< 0.51	< 0.6 UJ	< 0.45 UJ	< 0.47 UJ	< 0.55 UJ
C16-C21 Aromatics	NLE	NLE	NLE	0.44 J	< 0.21	0.55 J	80.6	1.1 J	0.56 J	0.76 J	0.38 J	0.25 J	0.31 J	0.35 J	0.54 J
C21-C36 Aromatics	NLE	NLE	NLE	2.1 B	0.31 J	0.86 J	9	3.9	0.7 J	1 J	0.5 J	0.39 J	0.67 J	1 J	< 0.31
C21-C40 Aliphatics	NLE	NLE	NLE	3 JB	1.3 JB	2.3 JB	9.6 J	8.2 J	1.2 JB	1.5 B	1.4 B	1.9 JB	1.1 J	0.74 J	1.2 J
C9-C12 Aliphatics	NLE	NLE	NLE	0.4 J	0.52 J	0.63 J	14.3 J	0.46 J	0.5 J	0.25 J	0.23 J	0.28 J	0.4 J	0.33 J	0.42 J
Total Aliphatics	NLE	NLE	NLE	3.7 J	2.5 J	6.3 J	220 J	9.8 J	2.3 J	2.8 J	2.2 J	2.8 J	2 J	< 1.6 UJ	2.2 J
Total Aromatics	NLE	NLE	NLE	4 J	1.4 J	3.5 J	125	8	2.7 J	3.2 J	1.7 J	2.2 J	2 J	2.3 J	1.7 J
Total EPH	5,100	1,700	NLE	7.8 J	3.8 J	9.8 J	345	17.7	5 J	6 J	3.9 J	4.8 J	4 J	3.7 J	3.8 J
Wet Chemistry - Solids															
Percent Solids (percent)	NLE	NLE	NLE	85.5	77	72.8	72.4	74.6	74.6	83.5	79.8	65.9	88.5	83.7	74.9

Attachment B - Table 2
Validated Laboratory Data Results for Soil
Parcel 79

Sample ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Soil PAR-79-490-SB-02 2-2.5	Soil PAR-79-490-SB-02 3.5-4	Soil PAR-79-490-SB-02 8-8.5	Soil PAR-79-490-SB-03 2-2.5	Soil PAR-79-490-SB-03 6-6.5	Soil PAR-79-490-SB-03 9.5-10	Soil PAR-79-490-SB-04 2-2.5	Soil PAR-79-490-SB-04 3.5-4	Soil PAR-79-490-SB-04 8-8.5	Soil PAR-79-A75-SB-01 0.5-1	Soil PAR-79-A75-SB-01 2-2.5	Soil PAR-79-A75-SB-01 9.5-10
Depth															
Sample Date				4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/13/2016	4/13/2016	4/13/2016
Semivolatile Organic Compounds (ug/kg)															
2-Methylnaphthalene	230,000	2,400,000	8,000	NA	NA	NA	NA	NA	NA	NA	9,000 J	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	NA	NA	NA	NA	NA	NA	NA	< 86 UJ	NA	NA	NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)															
C10-C12 Aromatics	NLE	NLE	NLE	< 0.54	1.6 B	< 0.6	0.54 JB	1.5 B	1.1 JB	1.3 JB	19.9	0.94 JB	1.1 B	0.56 JB	< 0.47
C12-C16 Aliphatics	NLE	NLE	NLE	< 0.52 UJ	129	< 0.58 UJ	0.51 J	9.5 J	< 0.54 UJ	24.6 J	357 J	< 0.61 UJ	0.66 J	< 0.47 UJ	< 0.45 UJ
C12-C16 Aromatics	NLE	NLE	NLE	0.23 J	46	< 0.24	0.58 J	4.3	0.54 J	13.8	309	0.74 J	2.2	< 0.2	< 0.19
C16-C21 Aliphatics	NLE	NLE	NLE	< 0.51 UJ	92.5	< 0.56 UJ	15.1 J	9.5 J	< 0.53 UJ	21 J	270 J	< 0.59 UJ	1.1 J	< 0.46 UJ	< 0.44 UJ
C16-C21 Aromatics	NLE	NLE	NLE	0.8 J	109	0.69 J	6.7	7.9	< 0.22	18.5	453	0.46 J	74.5	1 J	0.43 J
C21-C36 Aromatics	NLE	NLE	NLE	0.65 J	10.2 J	0.39 J	108	1.6	0.4 J	2.7	43.3	0.66 J	233 J	0.38 J	< 0.25
C21-C40 Aliphatics	NLE	NLE	NLE	1.9 J	9.3 J	< 0.66 UJ	246	6.5 JB	1.9 JB	3.5 JB	41.1 J	1.6 JB	5.1 J	< 0.53 UJ	< 0.51 UJ
C9-C12 Aliphatics	NLE	NLE	NLE	0.5 J	15.8 J	0.25 J	0.39 J	2.4 J	0.64 J	5.8 J	104 J	0.44 J	0.33 J	0.33 J	0.14 J
Total Aliphatics	NLE	NLE	NLE	2.9 J	246 J	< 2 UJ	262 J	27.9 J	3.3 J	55 J	772 J	2.9 J	7.2 J	< 1.6 UJ	< 1.5 UJ
Total Aromatics	NLE	NLE	NLE	2 J	166	1.6 J	116	15.3	2.2 J	36.3	825	2.8 J	311	2.1 J	< 1.1
Total EPH	5,100	1,700	NLE	4.9 J	413	< 3.3	378	43.2	5.5 J	91.4	1,600	5.6 J	318	3.2 J	< 2.6
Wet Chemistry - Solids															
Percent Solids (percent)	NLE	NLE	NLE	79.2	84.7	71.8	86	77.8	74.1	70.9	75.5	71	90.6	90.3	90.8

Attachment B - Table 2
Validated Laboratory Data Results for Soil
Parcel 79

Sample ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Soil PAR-79-A75-SB-101	Soil PAR-79-A75-SB-02	Soil PAR-79-A75-SB-02	Soil PAR-79-A75-SB-02	Soil PAR-79-A75-SB-03	Soil PAR-79-A75-SB-03	Soil PAR-79-A75-SB-03	Soil PAR-79-A75-SB-04	Soil PAR-79-A75-SB-04	Soil PAR-79-A75-SB-04
Depth				2-2.5	0.5-1	3.5-4	9.5-10	0.5-1	3-3.5	9.5-10	0.5-1	3-3.5	9.5-10
Sample Date				4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016
Semivolatile Organic Compounds (ug/kg)													
2-Methylnaphthalene	230,000	2,400,000	8,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)													
C10-C12 Aromatics	NLE	NLE	NLE	0.48 JB	0.88 JB	1.4 B	0.75 JB	0.87 JB	1 JB	0.79 JB	1.1 BJ	1.2 BJ	1.6 BJ
C12-C16 Aliphatics	NLE	NLE	NLE	< 0.45 UJ	0.76 J	0.63 J	< 0.47 UJ	< 0.45 UJ	0.69 J	< 0.49 UJ	0.47 J	0.9 J	< 0.53 UJ
C12-C16 Aromatics	NLE	NLE	NLE	0.2 J	1.4	3.7	0.33 J	1.8	2	< 0.2	1.3 J	0.97 J	1.6 J
C16-C21 Aliphatics	NLE	NLE	NLE	< 0.44 UJ	0.92 J	1.3 J	< 0.46 UJ	1.6 J	1.6 J	< 0.48 UJ	0.74 J	< 0.48 UJ	1.4 J
C16-C21 Aromatics	NLE	NLE	NLE	0.63 J	27	77	0.21 J	21.9	77.3	0.42 J	2.8 J	11.1 J	5.5 J
C21-C36 Aromatics	NLE	NLE	NLE	0.26 J	117 J	192 J	1.4 J	61.1 J	232 J	2.3 J	6.6 J	19.9 J	15.8 J
C21-C40 Aliphatics	NLE	NLE	NLE	1.8 J	4.1 J	15.8 J	1.8 JB	2.1 J	4.9 J	0.7 J	4.3 JB	12.7 J	19 J
C9-C12 Aliphatics	NLE	NLE	NLE	0.37 J	0.89 J	0.67 J	0.39 J	0.4 J	0.41 J	0.48 J	0.79 J	0.66 J	0.48 J
Total Aliphatics	NLE	NLE	NLE	2.6 J	6.7 J	18.4 J	2.6 J	4.5 J	7.6 J	1.7 J	6.3 J	14.7 J	21 J
Total Aromatics	NLE	NLE	NLE	1.6 J	146	275	2.6 J	85.7	312	3.7 J	11.9 J	33.2 J	24.4 J
Total EPH	5,100	1,700	NLE	4.1 J	152	293	5.2 J	90.2	319	5.4 J	18.2	47.9	45.5
Wet Chemistry - Solids													
Percent Solids (percent)	NLE	NLE	NLE	90.9	77.7	87.1	86.8	89.8	88	86.1	87.1	83.6	77.9

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.

3) NLE = no limit established.

5) **Bold** = chemical detection

6) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

J = estimated detected value due to a concentration below the reporting limit or due to discrepancies in meeting

U = non-detect, i.e. not detected at or above this value.

7)

- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

####

There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard.

###

There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

###

Remediation Standard.

###

- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.

###

8) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's May 7, 2012 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's May 7, 2012 Remediation Standards.

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Impact to GW Soil Screening Level criteria refers to the Development of Site Specific Impact to Ground Water Soil Remediation Standards - Nov 2013 revised

http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf

Attachment C
Field Notes

120

Location Oceanport, NJ Date 4/12/16Project / Client ETMM phase II / VACETech: C. Watson, J. McDougall, Joe Bernick, C. TignerTASK: Parcel 79Weather: 55°F Rain

0730: on-site - Has trailer

0800: Mob to 79 JM to sample

temp. wells, OW to soil sample w/
ECDI

SAMPLE ID	TIME	ANALYSIS
PAR-79-490-SB-01-1.5-2	1115	EPH / 2 map/mg
PAR-79-490-SB-03-2-2.5	1120	
" " 01-9.5-10	1125	
" " 02-2-2.5	1025	
" " 02-3.5-4	1030	
" " 03-2-2.5	1140	
" " 03-6-5.5	1145	
" " 03-9.5-10	1150	
" " 01-2-2.5	0930	
" " 04-3.5-4	0935	
" " 04-8-2.5	0940	
" " 02-8-2.5	1035	
PAR-79-MP-TMW01	0920	Vols + Ties + SWDS
PAR-79-MP-TMW02	0940	" "
PAR-79-MP-TMW03	1000	" "
PAR-79-MP-TMW04	0940	" "
		" "

Location _____

Date 4/12/16¹²¹

Project / Client _____

SAMPLE ID	TIME	ANALYSIS
PAR-79-MP-TMW05	0900	Vols + Ties + SWDS
" " 01-TMW 06	1020	
" " 11-TMW 07	1100	
" " 11-TMW 08	1040	
" " 11-TMW 09	0840	

1205: Lunch + Demob + Mob to new
area

1320: Arrive @ Parcel 79-202

SAMPLE ID	TIME	ANALYSIS
PAR-79-202-SB-03-2.5	1430	EPH, 2 map/mg
PAR-79-202-SB-03-3-3.5	1435	
" " 03-9.5-10	1440	
" " 02-3-3.5	1400	
" " 02-3.5-4	1405	
" " 02-8-2.5	1410	
" " 01-2-2.5	1450	
" " 01-3-3.5	1455	
" " 01-9.5-10	1500	

1515: Demob

1535: EC DI off-site

1545: finish COC's / Pack COC's / DCAR / OM/OC

1700: off-site

122-

Location Oceanport, NJ Date 4/13/16
Project / Client FTMM phase II / USACETech: C. Watson, Dustin, Joe Bernick, Colin Tyler, Frank A.Task: Temp well sample / SB's @ 79Weather: 45°F clear0730: on-site - Had to get cal,0808: mob equipment to parcel 790830: Arrive @ 79. Drillers to pull temp wells, CW + DB to sample temp wells

SAMPLE ID	Time	Analysis	DTW
PAR-79-490-TMW01	0900	voc/kvoc	18"
PAR-79-490-TMW02	0920		6"
PAR-79-490-TMW03	1000		3.0'
PAR-79-202-TMW01	1100	I	

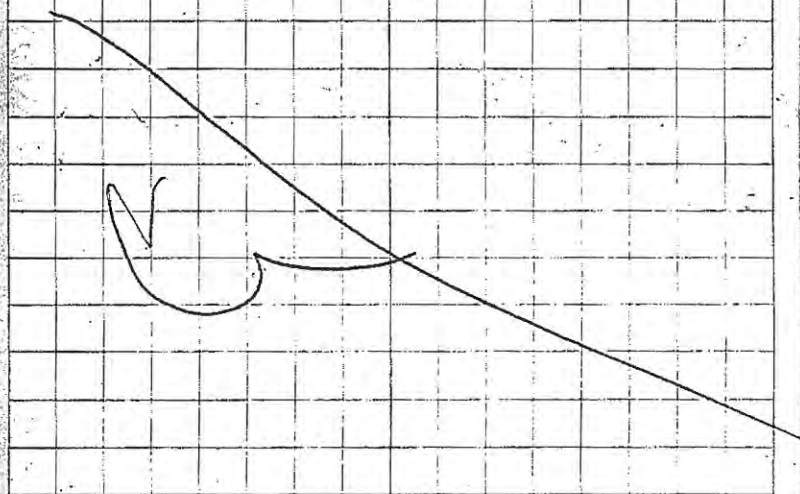
1035: mob office gate to p 79-1421105: par 79-142-TMW01 installed1120: mob to A75 AREA, stop1210: Lunch1235: Begin Drilling

SAMPLE ID	Time	Analysis
PAR-79-A75-SB-03-05-1	1310	EPH, 2 ramp up
PAR-79-A75-SB-03-3-3.5	1315	
" " - 03-9.5-10	1320	
" " - 01-0.5-1	1340	
" " - 01-2-2.5	1345	
" " - 01-9.5-10	1350	

123

Location Oceanport, NJ Date 4/13/16
Project / Client FTMM phase II / USACE

SAMPLE ID	Time	Analysis
PAR-79-A75-SB-02-0.5-1	1430	EPH / 2 ramp up
" " - 02-3.5-4	1435	
" " - 02-9.5-10	1440	
" " - 04-0.5-1	1500	
" " - 04-3-3.5	1515	
" " - 04-9.5-10	1520	

1450: FRANK and Dustin to work on paperwork1530: mob back to office and cont. paperwork / pack cooler1635: off-site

Aug 2, 2016

Tech: S. Paralkar, C. Watson, Joe + Colin (ECOI)

Task: Temp well installation + sample

Weather: 75°F clear

0720: on-site

0730: H+S tailgate

0750: Prep bottleware, cal. P.I.D

0845: Mob to AREA 800

0900: C. Watson to install TMW's

S. Paralkar to begin sampling

TMW's from yesterday

SAMPLE ID	Time	Gauged Depth
ARE-800-TMW-04	0910	4.91 + MS/MSD/avg/ppm
ARE-800-TMW-03	0925	5.80
ARE-800-TMW-01	1030	4.15
ARE-800-TMW-02	1045	4.09

0945: Install ARE-800-TMW-08

1010: Install ARE-800-TMW-09

1135: Install ARE-800-TMW-07

12:15: Lunch

1300: Continue sampling TMW-04, Drillers Mob to 79

1345: Sample ARE-800-TMW-08, Drillers pull completed wells

1400: MOB to office, C. Watson continue sampling

1430: Prep samples, COCs, DCQR

1445: collect EB

1500: C. Watson back to office

1510: by Mob

1540: off-site

Aug 3, 2016

Tech: S. Paralkar, Z Lang, Joe + Colin (ECOI)

Task: Temp well installation + sample

Weather: 75°F clear

0720: on-site

0730: H+S tailgate

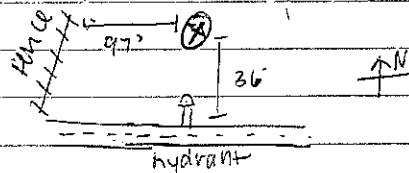
0820: prep bottleware, cal PID → 100 ppm (10:4521)

0845: mob to Parcel 79

0855: EDCI prep rig

0910: start drilling PAR-79-MP-TMW01

36' north of fire hydrant, 97' east of fence



0940: Install temp well PAR-79-MP-TMW01

0950: TMW01 gauged depth 8.43 - 3.1 = 5.33 ft

pulled up to 5' to 15' (screen)

1000: start drilling PAR-79-MP-TMW02

1015: install temp well PAR-79-MP-TMW02

124.9' north of fire hydrant, 83.4' east of fence

TMW02 gauged at 3.75'

1050: start drilling PAR-79-MP-TMW03

1110: installed temp well PAR-79-MP-TMW03

198.4' north of hydrant,

100.1' east of fence

gauging depth @ 3.75'

1130: started drilling PAR-79-MP-TMW04

1200: install PAR-79-MP-TMW04

101.11' north of hydrant

229.3' east of fence

gauging depth: 4.49

12:20 lunch

1300: Drillers went to landfill.

Z-lary and S Paralkar tried to organize
bottleware + talk to lab

1400: Mob to 79

1420: start drilling TMW05

1430: S. Paralkar sample PAR-79-MP-TWPO1

1445: Install TMW05

94' ft north of utility pole line / street

140' west of building 451

gauging depth: $6.65 - 1.9 = 4.75$ ^{SP} 4.75

1445: S. Paralkar sample PAR-79-MP-TWPO2

1450: start drilling TMW06

1510: Install TMW06

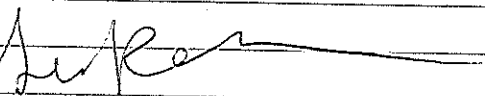
181' north of utility pole line / street

140' east of building 451

1520: Mob to office

1540: Prep samples, COCs, DCQR, collect EB

1620: offsite



Aug 4 2016

101.11' north of hydrant

229.3' east of fence

gauging depth: 4.49

12:20 lunch

1300: Drillers went to landfill

Z. Lamy and S. Paralkar tried to organize
bottleware + talk to lab

1400: Mob to 79

1420: start drilling TMW05

1430: S. Paralkar sample PAR-79-MP-TW01

1445: Install TMW05

94' ft north of utility pole line / street

140' west of building 451

gauging depth: 6.65 - 7.9 = ~~4.35~~ ^{5.50} 4.75

1445: S. Paralkar sample PAR-79-MP-TW02

1450: start drilling TMW06

1510: Install TMW06

181' north of utility pole line / street

140' east of building 451

1520: mob to office

1540: Prep samples, COCs, DCQR, collect EB

1620: offsite

Tech: S. Paralkar, C. Watson, Joe (ECDI)

Task: Temp well installation + sample

weather: 80F clear

0720: on-site

0730: H+ S tailgate

0750: prep bottleware, cal PID

0815: S. Paralkar mob to ARE 800 to sample

C. Watson + drillers mob to PAR-79

Sample ID	Time	gauged depth
ARE-800-TMW-09	0845	8.75

ARE-800-TMW-07	0915	10.1

0925: S. Paralkar mob to office

0935: S. Paralkar mob to Par 79

Sample ID	Time	gauged depth
PAR-79-MP-TMW03	1010	3.73

PAR-79-MP-TMW04	1035	4.5

PAR-79-MP-TMW05	1055	4.8

PAR-79-MP-TMW06	1120	4.8

PAR-79-MP-TMW08	1145	5.45

PAR-79-MP-TMW07	1150	7.9

PAR-79-490-TMW03	1405	3.4

PAR-79-MP-TMW09	1315	3.6

TMW NAME	Time installed
PAR-79-MP-TMW08	0920

" " TMW07	0940

PAR-79-142-TMW01	1345

PAR-79-490-TMW02	1155

PAR-79-490-TMW01	1050

Aug 5 2016

TMW NAME	Time installed
PAR-79-490-TMW03	1130
PAR-79-490-TMW01	1005

1445: Mob to office
 1500: Demob, drop trailer, collect EB
 1520: COC'S, prep samples
 1545: off-site

Tech: S. Paralkar, C. Watson, Joe (EDCI)
 Task: Temp well installation + sampling
 Weather: 80F clear

0725: onsite
 0730: prep bottle ware + coolers
 0750: cal PID, load car
 0800: H+S tailgate
 0825: Mob to Par 79

Sample ID	time	depth
PAR-79-490-TMW01	0855	2.6
PAR-79-490-TMW02	0915	2.9
PAR-79-142-TMW01	0945	6.8
PAR-79-202-TMW01	1030	2.9
PAR-79-A75-TMW01	1105	3.8 + Dip/ins/lossy
PAR-79-A75-TMW02	1130	8-11 split

0905: install A75-TMW01

0955: install A75-TMW02

1005: install A75-TMW01

1030: Demob out of A75

1100: EDCI Drop trailer, get material to pull and plug completed TMW'S from yesterday and today

1300: A75-TMW02 completed - perhaps was slow

1320: Mob to office - paperwork, COC'S, prep coolers for shipment

1430: Lab on-site for pick up

1500: off-site

[Signature]

Attachment C
Summary of Sample and Analytical Information for Parcel 79

Sampling Location	UST-ID	Matrix	Date Installed	Date Sampled	Lab Report Service Request Number
PAR-79-202-SB-01	UST 202 A/D	soil	4/12/2016	4/12/2016	2137450
PAR-79-202-SB-02	UST 202D	soil	4/12/2016	4/12/2016	2137450
PAR-79-202-SB-03	UST 202A	soil	4/12/2016	4/12/2016	2137450
PAR-79-490-SB-01	UST 490	soil	4/12/2016	4/12/2016	2137450
PAR-79-490-SB-02	UST 490	soil	4/12/2016	4/12/2016	2137450
PAR-79-490-SB-03	UST 490	soil	4/12/2016	4/12/2016	2137450
PAR-79-490-SB-04	UST 490	soil	4/12/2016	4/12/2016	2137450
PAR-79-A75-SB-01	AST-2	soil	4/13/2016	4/13/2016	R1603707
PAR-79-A75-SB-02	AST-1	soil	4/13/2016	4/13/2016	2138496/R1603707
PAR-79-A75-SB-03	AST-2	soil	4/13/2016	4/13/2016	R1603707
MISSING -PAR-79-A75-SB-04	AST-1			4/13/2016	2138496
202MW01	UST 202 A/D	water	5/25/2016	5/25/2016	2146758
490MW01	UST 490	water	5/25/2016	5/25/2016	2146758
M16MW02	UST 202 A/D	water	5/25/2016	5/25/2016	2146758
PAR-79-142-TMW01	UST 142B	water	8/4/2016	8/5/2016	2165197
PAR-79-202-TMW01	UST 202 A/D	water	8/5/2016	8/5/2016	2165197
PAR-79-490-TMW01	UST 490	water	8/4/2016	8/5/2016	2165197
PAR-79-490-TMW02	UST 490	water	8/4/2016	8/5/2016	2165197
PAR-79-490-TMW03	UST 490	water	8/4/2016	8/4/2016	2165196
PAR-79-A75-TMW01/101	AST-2	water	8/5/2016	8/5/2016	2165197
PAR-79-A75-TMW02	AST-1	water	8/5/2016	8/5/2016	2165197
PAR-79-MP-TMW01	UST 440	water	8/3/2016	8/3/2016	2165196
PAR-79-MP-TMW02	UST 444	water	8/3/2016	8/3/2016	2165196
PAR-79-MP-TMW03	UST 448	water	8/3/2016	8/4/2016	2165196
PAR-79-MP-TMW04	UST 449	water	8/3/2016	8/4/2016	2165196
PAR-79-MP-TMW05	UST 450	water	8/3/2016	8/4/2016	2165196
PAR-79-MP-TMW06	UST 445	water	8/3/2016	8/4/2016	2165196
PAR-79-MP-TMW07	UST 441	water	8/4/2016	8/4/2016	2165196
PAR-79-MP-TMW08	UST 437	water	8/4/2016	8/4/2016	2165196
PAR-79-MP-TMW09	UST 451	water	8/4/2016	8/4/2016	2165196

Attachment D
Boring Logs

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: PAR 51-202 mmbj

PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling

AOC # (AREA): parcel 79

WELL PERMIT #:

DATE: 5/25/16

SCREENED INTERVAL (TOC): 7-17

SAMPLING PERSONNEL NAME: C. Watson

WELL DIAMETER (in.): 4

SAMPLING PERSONNEL NAME:

BOREHOLE DIAMETER FACTORS

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 0

FEET OF SATURATED SCREEN (ft): 10

WELL DEPTH (TOC): 17

DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 5.18

FEET OF WATER IN WELL (ft): 11.85

PUMP INTAKE DEPTH (ft below TOC): 9.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1120	X		4.34	NA	0.747	NA	365.0	NA	3.38	NA	7.59	NA	17.62	NA	200	5.28
1125	X		3.94	0.44	0.753	0.006	371.2	26.2	2.64	0.74	2.79	4.8	16.80	0.82	200	5.35
1130	X		3.94	0	0.745	0.008	400.9	9.7	2.20	0.44	1.69	1.10	17.27	0.47	150	5.40
1135	X		3.96	0.02	0.748	0.003	464.3	3.4	2.10	0.10	1.10	0.59	17.33	0.06	150	5.43
1140	X		3.97	0.01	0.753	0.015	408.3	4.0	1.97	0.13	0.88	0.22	17.23	0.10	150	5.45
1145	X		3.97	0	0.754	0.001	410.1	1.8	1.89	0.08	0.96	0.08	17.11	0.12	150	5.46
1150	X		3.78	0.01	0.757	0.002	416.0	5.9	1.85	0.04	0.70	0.26	17.09	0.02	150	5.46
1155	X		3.78	0	0.757	0	417.9	1.9	1.82	0.03	0.79	0.09	17.13	0.04	150	5.45

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: 202MWD1

PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling

WELL PERMIT #:

AOC # (AREA): parcel 79

DATE: 5/25/16

SCREENED INTERVAL (TOC): 7-17

SAMPLING PERSONNEL NAME: J. Watson

WELL DIAMETER (in.): 4

SAMPLING PERSONNEL NAME:

BOREHOLE DIAMETER FACTORS

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 0

FEET OF SATURATED SCREEN (ft): 10

WELL DEPTH (TOC): 17

DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 5.18

FEET OF WATER IN WELL (ft): 11.85

PUMP INTAKE DEPTH (ft below TOC): 9.5 14.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1220	X		3.99	NA	0.814	NA	407.3	NA	3.66	NA	2.07	NA	21.07	NA	150	5.37
1225	Y		3.93	0.06	0.792	0.002	420.4		1.99	1.67	2.36	0.25	17.65	4.02	150	5.39
1230	Y		3.88	0.05	0.775	0.022	434.0	23.6	1.81	0.18	1.10	1.26	16.65	0.40	150	5.39
1235	Y		3.88	X	0.773	0.002	433.8	0.2	1.42	0.35	1.27	0.17	16.50	0.15	150	5.39
1245	X		3.89	0.01	0.771	0.002	433.1	0.7	1.39	0.03	1.04	0.23	16.43	0.07	150	5.40
1250	X		3.89	X	0.770	0.001	432.7	0.4	1.36	0.03	1.22	0.18	16.38	0.05	150	5.39

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS		CLIENT: USACE		WELL #: 490MW01	
PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling				WELL PERMIT #:	
AOC # (AREA): parcel 79				DATE: 5/26/16	
SCREENED INTERVAL (TOC): 7-22				SAMPLING PERSONNEL NAME: C. WATSON	
WELL DIAMETER (in.): 2				SAMPLING PERSONNEL NAME:	

BOREHOLE DIAMETER FACTORS											
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 0

WELL DEPTH (TOC): 22

FEET OF WATER IN WELL (ft): 17.04

FEET OF SATURATED SCREEN (ft): 15

DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 4.96

PUMP INTAKE DEPTH (ft below TOC): 9.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1336	X		5.44	NA	0.728	NA	74.6	NA	4.25	NA	12.0	NA	21.97	NA	200	4.90
1335	X		5.38	0.006	0.734	0.006	80.6	6.0	2.67	1.58	19.6	2.6	18.69	3.28	200	5.01
1340	X		5.42	0.004	0.729	0.005	83.6	3.0	2.43	0.24	15.0	4.6	17.39	1.30	175	5.13
1345	X		5.43	0.001	0.729	0	82.1	0.9	1.95	0.48	16.2	1.2	18.70	1.31	175	5.13
1350	X		5.45	0.002	0.725	0	82.1	0.0	1.82	0.13	15.6	0.6	19.04	0.34	175	5.13
1355	X		5.45	0	0.725	0.004	83.6	1.5	1.75	0.07	14.9	0.7	19.68	0.04	175	5.13
1400	X		5.46	0.001	0.724	0.001	84.0	0.4	1.72	0.03	14.7	0.2	19.15	0.07	175	5.13
1405	X		5.46	0	0.725	0.001	84.2	0.2	1.68	0.04	14.5	0.2	19.20	0.05	175	5.13

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: 490PMW01-95

SAMPLING INFORMATION

SAMPLING DEVICE: QED Sample Pro

SAMPLE NAME (ID): 450MW01-9.5

[illegible]

QAIQC SAMPLES:

DUPLICATE SAMPLE COLLECTED: YES or NO

DUPLICATE SAMPLE NAME (ID):

MS/MSD SAMPLE COLLECTED: YES or NO

MS / MSD SAMPLE NAME (ID):

PURGING AND SAMPLING COMMENTS:

INVESTIGATION DERIVED WASTE (IDW):

CAC

[illegible]

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: 490MW01

PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling

WELL PERMIT #:

AOC # (AREA): parcel 79

DATE: 5/25/16

SCREENED INTERVAL (TOC): 7-22

SAMPLING PERSONNEL NAME: C. Watson

WELL DIAMETER (in.): 2"

SAMPLING PERSONNEL NAME:

BOREHOLE DIAMETER FACTORS

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 0

FEET OF SATURATED SCREEN (ft): 15

WELL DEPTH (TOC): 22

DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 4.56

FEET OF WATER IN WELL (ft): 17.04

PUMP INTAKE DEPTH (ft below TOC): 14.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1425	Y		5.41	NA	0.723	NA	95.9	NA	5.06	NA	15.2	NA	15.11	NA	175	5.13
1430	Y		5.42	0.01	0.709	0.014	97.8	1.9	3.90	1.16	13.6	1.6	14.99	0.12	175	5.13
1435	Y		5.43	0.01	0.706	0.003	98.6	0.8	3.26	0.14	12.5	0.7	14.94	0.05	175	5.13
1440	Y		5.43	0	0.705	0.001	99.3	0.7	3.62	0.08	12.7	0.2	14.87	0.07	175	5.13
1445	Y		5.43	0	0.705	0	102.6	2.3	3.61	0.07	13.1	0.4	14.84	0.03	175	5.13
1450			5.43	0	0.705	0	104.1	1.5	3.57	0.04	11.6	1.5	14.80	0.04	175	5.13

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: 490MW01

SAMPLING INFORMATION

SAMPLING DEVICE: QED Sample Pro

SAMPLE NAME (ID): 490MW01-14.5

SAMPLE PARAMETER	TIME	CONTAINER	COLOR	TURBIDITY	COMMENTS
VOCs	1450	(3) VOA	Clear	10.8	
SVOCs	1450	(2) 1L Amber	Clear	10.8	

QA/QC SAMPLES:

DUPLICATE SAMPLE COLLECTED: YES or ☒ NO

DUPLICATE SAMPLE NAME (ID):

MS/MSD SAMPLE COLLECTED: YES or ☒ NO

MS / MSD SAMPLE NAME (ID):

PURGING AND SAMPLING COMMENTS:

INVESTIGATION DERIVED WASTE (IDW):

Date:

Volume Transferred to Drum:

Drum Number:

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: 490MW01 ~~488~~

PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling

WELL PERMIT #:

AOC # (AREA): R-01-079

DATE: 5/25/16

SCREENED INTERVAL (TOC): 7-22

SAMPLING PERSONNEL NAME: C. Watson

WELL DIAMETER (in.): 2"

SAMPLING PERSONNEL NAME:

BOREHOLE DIAMETER FACTORS

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 0

FEET OF SATURATED SCREEN (ft): 15

WELL DEPTH (TOC): 22

DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 4.96

FEET OF WATER IN WELL (ft): 17.04

PUMP INTAKE DEPTH (ft below TOC): 19.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1520	X		5.43	NA	0.710	NA	106.7	NA	5.16	NA	10.6	NA	14.75	NA	175	5.06
1525	X		5.44	0.01	0.722	0.012	105.8	0.9	4.83	0.17	11.2	0.6	14.70	0.05	175	5.08
1530	X		5.44	0	0.725	0.003	104.6	1.2	0.63	0.20	11.8	0.6	14.62	0.08	175	5.09
1535	X		5.45	0.01	0.726	0.001	104.1	0.5	4.39	0.24	9.86	1.94	14.63	0.01	175	5.09
1540	X		5.45	0	0.726	0	103.8	0.3	4.27	0.12	9.10	0.76	14.60	0.03	175	5.10
1545	X		5.45	0	0.727	0.001	103.4	0.4	4.10	0.17	8.82	0.28	14.61	0.01	175	5.10

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: 450mW01

SAMPLING INFORMATION

SAMPLING DEVICE: QED Sample Pro

SAMPLE NAME (ID): 490, MONO1-19.5

[illegible]

QAIQC SAMPLES:

DUPLICATE SAMPLE COLLECTED: YES or NO

DUPLICATE SAMPLE NAME (ID):

MS/MSD SAMPLE COLLECTED: YES or NO

MS / MSD SAMPLE NAME (ID): _____

PURGING AND SAMPLING COMMENTS:

INVESTIGATION DERIVED WASTE (IDW):

CAC

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: M16MW08

PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling

WELL PERMIT #:

AOC # (AREA): Parcel 29

DATE: 5/25/16

SCREENED INTERVAL (TOC): 7-17

SAMPLING PERSONNEL NAME: J. Lalzo

WELL DIAMETER (in.): 4

SAMPLING PERSONNEL NAME:

BOREHOLE DIAMETER FACTORS

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 0-0

FEET OF SATURATED SCREEN (ft): 10

WELL DEPTH (TOC): 17.00

DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 4.01

FEET OF WATER IN WELL (ft): 12.99

PUMP INTAKE DEPTH (ft below TOC): 9.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1250	X		4.76	NA	0.595	NA	191.5	NA	2.62	NA	1.40	NA	21.28	NA	150	4.05
1255	X		3.76	1.08	0.641	0.046	280.5	89	2.62	2.00	0.67	0.73	16.48	4.74	200	4.15
1300	X		3.77	0.01	0.626	0.015	296.6	16.1	2.72	0.10	0.40	0.27	16.64	0.16	200	4.17
1305	X		3.78	0.01	0.632	0.006	319.2	22.6	2.13	0.59	2.01	1.61	16.53	0.11	200	4.17
1310	X		3.77	0.01	0.634	0.002	320.7	18.5	1.94	0.19	0.32	1.69	16.47	0.06	200	4.17
1315	X		3.77	0.00	0.632	0.002	320.0	9.3	1.89	0.05	0.11	0.21	16.56	8.09	200	4.17
1320	X		3.76	0.01	0.630	0.002	321.4	8.6	1.85	0.04	0.94	0.83	16.62	0.06	200	4.17

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: M16 MW02

PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling

WELL PERMIT #:

AOC # (AREA): Parcel 79

DATE: 5/25/16

SCREENED INTERVAL (TOC): 7-17

SAMPLING PERSONNEL NAME: J. Lopez

WELL DIAMETER (in.): 4

SAMPLING PERSONNEL NAME:

BOREHOLE DIAMETER FACTORS

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 20

FEET OF SATURATED SCREEN (ft): 10

WELL DEPTH (TOC): 17.00

DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 4.01

FEET OF WATER IN WELL (ft): 0.99

PUMP INTAKE DEPTH (ft below TOC): 14.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1330	X		3.79	NA	0.637	NA	324.7	NA	2.18	NA	0.72	NA	17.22	NA	225	4.07
1335	X		3.78	0.01	0.638	0.005	373.0	48.3	1.35	0.85	0.60	0.12	16.07	1.15	225	4.17
1340	X		3.72	0.06	0.630	0.002	417.0	44.0	0.99	0.34	0.34	0.26	15.75	0.32	225	4.17
1345	X		3.75	0.03	0.624	0.006	425.5	8.5	0.91	0.08	0.23	0.11	15.66	0.09	225	4.17
1350	X		3.76	0.02	0.616	0.008	427.1	1.6	0.87	0.04	0.63	0.40	15.86	0.20	225	4.17
1355	X		3.78	0.02	0.613	0.003	428.7	1.6	0.88	0.01	0.65	0.02	15.72	0.14	225	4.17

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

Soil Boring Log

CLIENT: USACE					INSPECTOR: CW		BORING/WELL ID: PAR-79-201-SB-01	
PROJECT NAME: FTMM - ECP					DRILLER: JOE BARNAK		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER:		Parcel 79	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)		LOCATION PLAN	
GROUNDWATER OBSERVATIONS					RIG TYPE: Geoprobe(R) 7822DT		Oceanport, New Jersey	
WATER LEVEL: -2.5					DATE/TIME START: 4/12/16 1440			
DATE: 4/12/16					DATE/TIME FINISH: 4/12/16 1455			
TIME:					WEIGHT OF HAMMER: N/A			
MEAS. FROM: 545					DROP OF HAMMER: N/A			
					TYPE OF HAMMER: N/A			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			69/60	0	0-2" Topsoil/grass			
1					2"-29" Moist, Brown, MF SAND, little silt, little f gravel concrete chunk @ 10"			
1450 2	2-2.5				29"-60" Saturated, Brown, M. Dense MF SAND, some silt, trace clay, trace f gravel			
1455 3	3-3.5							
4								
5			60/60	0	0-8" S.A.A			
6					8-60" Wet, light/orange/brown, mottled mf SAND, little silt			
7								
8								
9								
1500 9.5-10								
10								
Remarks:								
Sample Types				Consistency vs. Blowcount / Foot				
S - Split-Spoon				Granular (Sand & Gravel)				
U - Undisturbed Tube				Fine Grained (Silt & Clay)				
C - Rock Core				V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15				
A - Auger Cuttings				Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30				
				M. Dense: 10-30 M. Stiff: 4-8 Hard: >30				
				and - 35-50% some - 20-35% little - 10-20% trace - <10%				
				moisture, density, color, gradation				

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>CW</u>		BORING/WELL ID: <u>PAF-79-202-56-02</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>JOE BARNAK</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>50°F RAIN</u>		<u>Parcel 79</u>	
PROJECT NUMBER: 748810-					CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u>		LOCATION PLAN	
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		Oceanport, New Jersey	
WATER LEVEL: <u>~2'</u>					DATE/TIME START: <u>4/12/16</u> <u>1350</u>			
DATE: <u>4/12/16</u>					DATE/TIME FINISH: <u>4/12/16</u> <u>1405</u>			
TIME:					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM:					DROP OF HAMMER: <u>N/A</u>			
					TYPE OF HAMMER: <u>N/A</u>			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			<u>68.5</u>	<u>0</u>	0-26" moist, brown, MF SAND, little silt, trace f gravel			
1				<u>0</u>	26- ~~43~~ 47" saturated, black, F sand and silt, organics			
2				<u>0</u>	47-53" wet, gray, m. dense, MF SAND, little silt			
3	<u>3-3.5</u>			<u>10.9</u>				
4	<u>3.5-4</u>			<u>68.5</u>				
5				<u>56.4</u>				
6				<u>0</u>	0-6" SAA			
7				<u>0</u>	6"-60" saturated, light grey/gray/brown, medium mf SAND, little silt			
8	<u>8-8.5</u>							
9								
10								
Remarks:								
Sample Types					Consistency vs. Blowcount / Foot			
S - Split-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A - Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: >30			
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation			

1400

1400

1405

1410

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>GW</u>		BORING/WELL ID: <u>PAR-79-202-SB-03</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>JOE BAWAK</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>50°F DRY</u>		<u>Parcel 79</u>	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)			
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		LOCATION PLAN	
WATER LEVEL: <u>22.5</u>					DATE/TIME START: <u>4/12/16</u> <u>1420</u>		Oceanport, New Jersey	
DATE: <u>4/12/16</u>					DATE/TIME FINISH: <u>4/12/16</u> <u>1430</u>			
TIME:					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: <u>BCS</u>					DROP OF HAMMER: <u>N/A</u>			
TYPE OF HAMMER: <u>N/A</u>								
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			<u>60/49</u>	<u>0</u>	0-16" Brown, MF SAND, little silt, trace of gravel			
1					16"-49" saturated, MF, M. dense SAND, some silt, trace clay, trace of gravel			
1430	2-2.5							
1435	3-3.5							
4								
5			<u>60/60</u>	<u>0</u>	0-3" SAA			
6					3"-60" saturated, light gray/brown/Brown, mottled MF SAND, little silt			
7								
8								
9								
1440	9.5-10							
10								
Remarks:								
Sample Types				Consistency vs. Blowcount / Foot				
S - Split-Spoon				Granular (Sand & Gravel)				
U - Undisturbed Tube				Fine Grained (Silt & Clay)				
C - Rock Core				V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 6-16				
A - Auger Cuttings				Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30				
				M. Dense: 10-30 M. Stiff: 4-8 Hard: >30				
				and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation				

Soil Boring Log

CLIENT: USACE PROJECT NAME: FTMM - ECP PROJECT LOCATION: FTMM Parcel PROJECT NUMBER: 748810-					INSPECTOR: <u>CW</u> DRILLER: <u>JOE BARNAK</u> WEATHER: <u>55°F RAIN/WIND</u> CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u>		BORING/WELL ID: <u>PAR-79-405B-01</u> LOCATION DESCRIPTION: <u>Bureau</u>																
GROUNDWATER OBSERVATIONS WATER LEVEL: <u>~2</u> DATE: <u>4/12/16</u> TIME: MEAS. FROM:					RIG TYPE: <u>Geoprobe(R) 7822DT</u> DATE/TIME START: <u>4/12/16 10:20</u> DATE/TIME FINISH: <u>4/12/16 10:35</u> WEIGHT OF HAMMER: <u>N/A</u> DROP OF HAMMER: <u>N/A</u> TYPE OF HAMMER: <u>N/A</u>		LOCATION PLAN Oceanport, New Jersey																
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS																
0			60/49	0	0-2" topsoil, grass																		
1	1.5-2				2"-14" dark gray mc sand and gravel, trace brick																		
2	2-2.5				14-25" gray, wet, mf sand little silt, trace clay, trace f gravel																		
3					25"-40" gray, sat, mc sand, little silt.																		
4					40-49" saturated, light gray/gray/brown mottled mf sand, little silt																		
5		60/60		0	0-60" sand																		
6																							
7																							
8																							
9																							
10	9.5-10																						
Remarks:																							
Sample Types S - Split-Spoon U - Undisturbed Tube C - Rock Core A - Auger Cuttings					Consistency vs. Blowcount / Foot <table border="1"> <tr> <th colspan="2">Granular (Sand & Gravel)</th> <th colspan="2">Fine Grained (Silt & Clay)</th> </tr> <tr> <td>V. Loose: 0-4</td> <td>Dense: 30-50</td> <td>V. Soft: <2</td> <td>Stiff: 8-15</td> </tr> <tr> <td>Loose: 4-10</td> <td>V. Dense: >50</td> <td>Soft: 2-4</td> <td>V. Stiff: 15-30</td> </tr> <tr> <td>M. Dense: 10-30</td> <td></td> <td>M. Stiff: 4-8</td> <td>Hard: >30</td> </tr> </table>			Granular (Sand & Gravel)		Fine Grained (Silt & Clay)		V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15	Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30	M. Dense: 10-30		M. Stiff: 4-8	Hard: >30
Granular (Sand & Gravel)		Fine Grained (Silt & Clay)																					
V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15																				
Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30																				
M. Dense: 10-30		M. Stiff: 4-8	Hard: >30																				
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation																		

1115

1120

1125

Soil Boring Log

CLIENT: USACE					INSPECTOR: CW		BORING/WELL ID: PAF-74.460-58-02	
PROJECT NAME: FTMM - ECP					DRILLER: Joe BARNAK		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: 55°F High FAW		Parcel 79	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)			
GROUNDWATER OBSERVATIONS					RIG TYPE: Geoprobe(R) 7822DT		LOCATION PLAN	
WATER LEVEL: ~2					DATE/TIME START: 4/12/16 0940		Oceanport, New Jersey	
DATE: 4/12/16					DATE/TIME FINISH: 4/12/16 0955			
TIME:					WEIGHT OF HAMMER: N/A			
MEAS. FROM: BLS					DROP OF HAMMER: N/A			
TYPE OF HAMMER: N/A								
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			60/53	0	0-6" Brown, wet, MC SAND, little silt			
1				0	6"-21" Brown, wet, M. dense, F SAND, some silt, trace clay			
1025 2	2-2.5			0	21"-32" Brown, saturated, soft F SAND, some silt, some clay			
3	2-2			0	32"-44" Brown, saturated, M. dense MC SAND, little silt, staining 42-44"		odor	
1030 4	3.5-4			26.4	0-10" SAA			
5			60/60	0	10-60" saturated, light gray/orange/ brown, mottled w/ SAND, little silt			
6								
7								
1035 8	8-8.5							
9								
10								
Remarks:								
Sample Types					Consistency vs. Blowcount / Foot			
S - Split-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A - Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: >30			
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation			

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>W</u>		BORING/WELL ID: <u>PAE-79-490-SB-03</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>Joe BARNAT</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>55°F RAIN</u>		<u>Parcel 79</u>	
PROJECT NUMBER: 748810					CONTRACTOR: East Coast Drilling, Inc. (ECDI)			
GROUNDWATER OBSERVATIONS					RIG TYPE: Geoprobe(R) 7822DT		LOCATION PLAN	
WATER LEVEL: <u>~3.5</u>					DATE/TIME START: <u>4/12/16</u> <u>10:50</u>		Oceanport, New Jersey	
DATE: <u>4/12/16</u>					DATE/TIME FINISH: <u>4/12/16</u> <u>10:10</u>			
TIME: <u>11:15</u>					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: <u>Bas</u>					DROP OF HAMMER: <u>N/A</u>			
TYPE OF HAMMER: <u>N/A</u>								
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			60/60	0	0-3" Asphalt			
				0	3"-16" Dark Brown, MC SAND, little silt, little f. sand			
1				0				
				6	16"-38" grey, moist, dense, mf SAND, some silt			
2	2-2.5			0				
				0				
3				0	38"-56" grey, saturated, m. stiff f SAND in silt, trace clay			
				0				
4				0				
				10.6	56"-60" grey, saturated, m. dense MC SAND, little silt			
5			60/60	77.6	0-15" SAA		0005	
				91.8				
6	6-6.5			104	15"-60" saturated, light grey/orange/brown, mottled mf SAND, little silt			
				72.1				
7				13.0				
				0				
8				0				
				0				
9				0				
	9.5-10			0				
10								
Remarks:								
Sample Types					Consistency vs. Blowcount / Foot			
S - Spill-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50			
A - Auger Cuttings					V. Soft: <2 Stiff: 8-15			
					Loose: 4-10 V. Dense: >50			
					Soft: 2-4 V. Stiff: 15-30			
					M. Stiff: 4-8 Hard: >30			
					and - 35-50%			
					some - 20-35%			
					little - 10-20%			
					trace - <10%			
					moisture, density, color, gradation			

Soil Boring Log

CLIENT: USACE					INSPECTOR: CW		BORING/WELL ID: PAR-71-490-SB-04	
PROJECT NAME: FTMM - ECP					DRILLER: JOE BARNAK		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: 55°F RAIN		Parcel 79	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)		LOCATION PLAN	
GROUNDWATER OBSERVATIONS					RIG TYPE: Geoprobe® 7822DT		Oceanport, New Jersey	
WATER LEVEL: ~2					DATE/TIME START: 4/12/16 0900			
DATE: 4/12/16					DATE/TIME FINISH: 4/12/16 0915			
TIME: 0915					WEIGHT OF HAMMER: N/A			
MEAS. FROM: BGS					DROP OF HAMMER: N/A			
					TYPE OF HAMMER: N/A			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			60/60	0	0-15" Brown, wet, M. dense, MF SAND, some silt, trace F gravel			
1				0	15"-22" grey, wet, M. dense, F SAND, some silt, trace clay		odor ▼	
2	2-2.5			0	22"-38" Saturated, grey, soft, F SAND, some silt, some clay			
3				10.6	38"-60" Saturated, grey, MF SAND, little silt,			
4	3.5-4			20.1				
5			60/60	0	0-16" SAA, slight odor			
6					16"-60" Saturated, light grey/orange/Brown Mottled w/ SAND, little silt			
7								
8	8-8.5							
9								
10								
Remarks:					CND of Boring 2 10'			
Sample Types					Consistency vs. Blowcount / Foot			
S - Split-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A - Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: >30			
					and - 35-50% some - 20-35% little - 10-20% trace - <10%			
					moisture, density, color, gradation			

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>CW</u>		BORING/WELL ID: <u>PAP-79A75-SB-01</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>SOB BARNAPK</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>50°F CLR</u>		<u>Parcel 79</u>	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)		LOCATION PLAN	
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		Oceanport, New Jersey	
WATER LEVEL: <u>~2.5</u>					DATE/TIME START: <u>4/13/16 1320</u>			
DATE: <u>4/13/16</u>					DATE/TIME FINISH: <u>4/13/16 1340</u>			
TIME: <u>1330</u>					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: <u>BL 5</u>					DROP OF HAMMER: <u>N/A</u>			
TYPE OF HAMMER: <u>N/A</u>								

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0			60/50	0	0-17" moist, brown, mf SAND, some silt, trace BRICK	I	
1	0.5-1 down				17-56" moist, light brown/yellow, medium MC SAND, trace silt		
2	2-2.5	115/150			saturated @ 31"	III	
3							
4							
5			60/60	0	0-28" SAA		
6					28-60" saturated, grey, MC SAND some f gravel, trace silt	II	
7							
8							
9							
10	9.5-10						
11							

Remarks:

Sample Types	Consistency vs. Blowcount / Foot			
S - Split-Spoon	Granular (Sand & Gravel)		Fine Grained (Silt & Clay)	
U - Undisturbed Tube	V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15
C - Rock Core	Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30
A - Auger Cuttings	M. Dense: 10-30		M. Stiff: 4-8	Hard: >30

and - 35-50%
some - 20-35%
little - 10-20%
trace - <10%
moisture, density, color, gradation

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>W</u>		BORING/WELL ID: <u>Pw. 79-A7538-02</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>JOE BARNAK</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>Sun clear</u>		<u>Parcel 79</u>	
PROJECT NUMBER: 748810-					CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u>			
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		LOCATION PLAN	
WATER LEVEL: <u>~4'</u>					DATE/TIME START: <u>4/13/16 1350</u>		Oceanport, New Jersey	
DATE: <u>4/13/16</u>					DATE/TIME FINISH: <u>4/13/16 1405</u>			
TIME: <u>1435</u>					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: <u>gas</u>					DROP OF HAMMER: <u>N/A</u>			
					TYPE OF HAMMER: <u>N/A</u>			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			<u>60/49</u>	<u>0</u>	0-20" Brown, mf, sandy, little silt, trace f gravel			
1430	0.5-1				20"-26" Brown, mf SAND, some f gravel, little silt	I		
2					26"-36" orange, moist, mf SAND, little silt, trace f gravel, trace coal no brick			
3					36"-49" moist, dark gray, mf SAND, little silt, trace clay, saturated @ 45"			
1435	3.5-4					II		
4								
5			<u>60/00</u>	<u>0</u>	6-11" SAND	II		
6					11"-60" wet, dark gray, mf SAND, little silt, little f gravel			
7								
8								
9								
1440	9.5-10							
10								

Remarks:

Sample Types

S - Split Spoon
 U - Undisturbed Tube
 C - Rock Core
 A - Auger Cuttings

Consistency vs. Blowcount / Foot

Granular (Sand & Gravel)		Fine Grained (Silt & Clay)	
V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15
Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30
M. Dense: 10-30		M. Stiff: 4-8	Hard: >30

and - 35-50%
 some - 20-35%
 little - 10-20%
 trace - <10%

moisture, density, color, gradation

Soil Boring Log

CLIENT: USACE PROJECT NAME: FTMM - ECP PROJECT LOCATION: FTMM Parcel PROJECT NUMBER: 748810-					INSPECTOR: CW DRILLER: JOE BACNAK WEATHER: 50°F sun CONTRACTOR: East Coast Drilling, Inc. (ECDI)		BORING/WELL ID: PAR-79-A75-SB-03 LOCATION DESCRIPTION: Parcel 79																
GROUNDWATER OBSERVATIONS WATER LEVEL: ~3.5 DATE: 4/13/16 TIME: MEAS. FROM:					RIG TYPE: Geoprobe(R) 7822DT DATE/TIME START: 4/13/16 1245 DATE/TIME FINISH: 4/13/16 1300 WEIGHT OF HAMMER: N/A DROP OF HAMMER: N/A TYPE OF HAMMER: N/A		LOCATION PLAN Oceanport, New Jersey																
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS																
0			60/49"	0	0-25" moist, Brown, mf SAND, some silt, little brick frags, little coal frags, trace f gravel	I																	
1	0.5-1																						
2					25-46" moist, Brown, mf SAND, little silt, little f gravel saturated to 43"																		
3	3-3.5																						
4					46-48" wet, Black, mf SAND, little silt, mica	II																	
5			60/60	0	0-10" SAA																		
6					10-50" Saturated gray, mc SAND, little f gravel, trace silt	III																	
7					50-60" Saturated, Brown, mc SAND, little f gravel, trace silt																		
8																							
9																							
10	9.5-10																						
Remarks:																							
Sample Types S - Split-Spoon U - Undisturbed Tube C - Rock Core A - Auger Cuttings					Consistency vs. Blowcount / Foot <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Granular (Sand & Gravel)</th> <th colspan="2">Fine Grained (Silt & Clay)</th> </tr> <tr> <td>V. Loose: 0-4</td> <td>Dense: 30-50</td> <td>V. Soft: <2</td> <td>Stiff: 8-15</td> </tr> <tr> <td>Loose: 4-10</td> <td>V. Dense: >50</td> <td>Soft: 2-4</td> <td>V. Stiff: 16-30</td> </tr> <tr> <td>M. Dense: 10-30</td> <td></td> <td>M. Stiff: 4-8</td> <td>Hard: >30</td> </tr> </table>			Granular (Sand & Gravel)		Fine Grained (Silt & Clay)		V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15	Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 16-30	M. Dense: 10-30		M. Stiff: 4-8	Hard: >30
Granular (Sand & Gravel)		Fine Grained (Silt & Clay)																					
V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15																				
Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 16-30																				
M. Dense: 10-30		M. Stiff: 4-8	Hard: >30																				
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation																		

PLACEHOLDER

Boring log for PAR-79-A75-SB-04 MISSING

Soil Boring Log

CLIENT: USACE					INSPECTOR: C. Watson		BORING/WELL ID: PAR-79-202-FMW01	
PROJECT NAME: FTMM - ECP					DRILLER: J. BARNAK		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: 68°F clear		Boreal 79-202	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)			
GROUNDWATER OBSERVATIONS					RIG TYPE: Geoprobe(R) 7822DT		LOCATION PLAN	
WATER LEVEL: 2.5					DATE/TIME START: 0850		Oceanport, New Jersey	
DATE: 8/5/16					DATE/TIME FINISH: 0900			
TIME: 0905					WEIGHT OF HAMMER: N/A			
MEAS. FROM: 0.5					DROP OF HAMMER: N/A			
					TYPE OF HAMMER: N/A			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			60/60	0	0-7" moist, Brown, mF loose SAND, little silt, grass			
1					7"-38" moist, Dark Brown, Dense, f SAND, some silt, some clay			
2					38"-52" moist, gray, f SAND, little clay, trace silt, saturated 24"			
3					52"-60" wet, gray/brown/brown mF, mottled SAND, tr. silt			
4								
5			60/60	0	0-16" saturated, SAA			
6					16"-60" saturated, gray/brown/ orange, mC, mottled SAND, little silt trace f gravel			
7								
8								
9								
10								
Remarks:								
Sample Types					Consistency vs. Blowcount / Foot			
S - Split-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A - Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: >30			
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation			

Soil Boring Log

CLIENT: USACE					INSPECTOR: C. Watson		BORING/WELL ID: PAR-79-490-TMU02	
PROJECT NAME: FTMM - ECP					DRILLER: J. BARNAK		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: 80°F Clear		Parcel 79. 490	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)			
GROUNDWATER OBSERVATIONS					RIG TYPE: Geoprobe(R) 7822DT		LOCATION PLAN	
WATER LEVEL:					DATE/TIME START: 8/4/16 1140		Oceanport, New Jersey	
DATE: 8/4/16					DATE/TIME FINISH: 8/4/16 1150			
TIME: 1155					WEIGHT OF HAMMER: N/A			
MEAS. FROM:					DROP OF HAMMER: N/A			
					TYPE OF HAMMER: N/A			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REQ.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			60/45	0	0-13" Moist, Brown, M. Amze M. F SAND, some silt			
1					13"-30" Wet, light brown/ orange, soft clay, some f SAND			
2								
3					30"-45" Saturated, M. Amze orange/grey, MC SAND, little silt, little f gravel			
4				4.7				
				NR				
				NR				
5			60/60	1.6	0-10" SAA			
				0	10-60" Saturated, orange/light grey, mottled f SAND, trace silt			
6								
7								
8								
9								
10								
Remarks:								
Sample Types					Consistency vs. Blowcount / Foot			
S - Split-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A - Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: >30			
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation			

Soil Boring Log

CLIENT: USACE	INSPECTOR: C. Watson	BORING/WELL ID: PAL-79-490-Tmws-1
PROJECT NAME: FTMM - ECP	DRILLER: J. BARNIAK	LOCATION DESCRIPTION
PROJECT LOCATION: FTMM Parcel	WEATHER: 80°F Clear	Parcel 79-490
PROJECT NUMBER: 748810-	CONTRACTOR: East Coast Drilling, Inc. (ECDI)	
GROUNDWATER OBSERVATIONS	RIG TYPE: Geoprobe(R) 7822DT	LOCATION PLAN
WATER LEVEL: 3	DATE/TIME START: 1030 8/4/16	Oceanport, New Jersey
DATE: 8/4/16	DATE/TIME FINISH: 1045 8/4/16	
TIME: 1050	WEIGHT OF HAMMER: N/A	
MEAS. FROM: DGS	DROP OF HAMMER: N/A	
	TYPE OF HAMMER: N/A	

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REG.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0			69/60	0	0-3" Top soil/grass		
				0	3"-6" Moist, orange, m. dense mt SAND, trace silt		
1				0			
				0.2	6"-18" Moist, Dark Brown sand and asphalt millings		
2				0	18"-32" moist, grey, m. stiff clay and f SAND		
					32"-42" saturated, grey/orange, MC SAND, trace silt.		
3							
4							
5			69/60	0	0-60" Saturated, orange and grey mottled f SAND, trace silt		
6							
7							
8							
9							
10							

Remarks:

Sample Types

S - Split-Spoon
 U - Undisturbed Tube
 C - Rock Core
 A - Auger Cuttings

Consistency vs. Blowcount / Foot

Granular (Sand & Gravel)		Fine Grained (Silt & Clay)	
V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15
Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30
M. Dense: 10-30		M. Stiff: 4-8	Hard: >30

and - 35-50%
 some - 20-35%
 little - 10-20%
 trace - <10%
 moisture, density, color, gradation

Soil Boring Log

CLIENT: USACE	INSPECTOR: C. Watson	BORING/WELL ID: PAR-75-490-TM23
PROJECT NAME: FTMM - ECP	DRILLER: J. BARNIK	LOCATION DESCRIPTION
PROJECT LOCATION: FTMM Parcel	WEATHER: 8°F Clear	
PROJECT NUMBER: 748810-	CONTRACTOR: East Coast Drilling, Inc. (ECDI)	
GROUNDWATER OBSERVATIONS	RIG TYPE: Geoprobe(R) 7822DT	LOCATION PLAN
WATER LEVEL: ~5	DATE/TIME START: 1115	Oceanport, New Jersey
DATE: 8/4/16	DATE/TIME FINISH: 1125	
TIME: 1125	WEIGHT OF HAMMER: N/A	
MEAS. FROM:	DROP OF HAMMER: N/A	
	TYPE OF HAMMER: N/A	

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0			60/60	0	0-12" Asphalt millings + mf Brown sand		
1				0	12"-35" Dark gray, moist, stiff f SAND, some clay, little silt		
2				0	35"-60" moist, gray, soft clay, little f SAND saturated @ 58"		
3				1.1			
4				2.0			
5			60/60	10.8	0-12" SBA, saturated		
6				33.5	12"-23" saturated, saturated, gray, mc SAND, trace silt		
7				14.9	23"-60" saturated, orange an gray, mottled f SAND, trace clay.		
8							
9							
10							

Remarks:

Sample Types	Consistency vs. Blowcount / Foot	
S - Split-Spoon	Granular (Sand & Gravel)	Fine Grained (Silt & Clay)
U - Undisturbed Tube	V. Loose: 0-4 Dense: 30-50	V. Soft: <2 Stiff: 8-15
C - Rock Core	Loose: 4-10 V. Dense: >50	Soft: 2-4 V. Stiff: 15-30
A - Auger Cuttings	M. Dense: 10-30	M. Stiff: 4-8 Hard: >30
		end - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation

Soil Boring Log

Baf-79-A75-IMW02

CLIENT: USACE	INSPECTOR: C. Watson	BORING/WELL ID: Baf-A75-IMW02
PROJECT NAME: FTMM - ECP	DRILLER: Joe Burhak	LOCATION DESCRIPTION
PROJECT LOCATION: FTMM Parcel	WEATHER: 75°F clear	Parcel 79 A75
PROJECT NUMBER: 748810-	CONTRACTOR: East Coast Drilling, Inc. (ECDI)	LOCATION PLAN
GROUNDWATER OBSERVATIONS	RIG TYPE: Geoprobe(R) 7822DT	Oceanport, New Jersey
WATER LEVEL: 2 - 7.5	DATE/TIME START: 0935	
DATE:	DATE/TIME FINISH: 0945	
TIME:	WEIGHT OF HAMMER: N/A	
MEAS. FROM:	DROP OF HAMMER: N/A	
	TYPE OF HAMMER: N/A	

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0			60/48	0	0-10" Moist, Brown, M. Sand MF SAND, trace silt, grass/roots	I	
1					10"-13" Moist, orange, M. Sand MF SAND, trace silt		
2					13"-15" Moist, Dark gray, f gravel		
3					15"-19" Moist, orange, M. Sand MF SAND, trace silt		
4					19"-48" Moist, Dark gray, f SAND and silt, trace clay		
5			60/60	0	0-18" SAA		
6					18"-60" Moist, gray, f SAND, Some silt, little f gravel, trace clay saturated @ 30"		
7							
8							
9							
10							

Remarks:

Sample Types	Consistency vs. Blowcount / Foot	
S - Split-Spoon	Granular (Sand & Gravel)	Fine Grained (Silt & Clay)
U - Undisturbed Tube	V. Loose: 0-4 Dense: 30-50	V. Soft: <2 Stiff: 8-15
C - Rock Core	Loose: 4-10 V. Dense: >50	Soft: 2-4 V. Stiff: 15-30
A - Auger Cuttings	M. Dense: 10-30	M. Stiff: 4-8 Hard: >30
		and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation

Soil Boring Log

CLIENT: USACE					INSPECTOR: C. Watson		BORING/WELL ID: PAR-79-A75-TM401	
PROJECT NAME: FTMM - ECP					DRILLER: J. BARANAK		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: 80°F clear		Parcel 79 A25	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)			
GROUNDWATER OBSERVATIONS					RIG TYPE: Geoprobe(R) 7822DT		LOCATION PLAN	
WATER LEVEL: ~4.5					DATE/TIME START: 0955		Oceanport, New Jersey	
DATE: 8/5/16					DATE/TIME FINISH: 1000			
TIME: 1000					WEIGHT OF HAMMER: N/A			
MEAS. FROM: BGS					DROP OF HAMMER: N/A			
					TYPE OF HAMMER: N/A			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			6/10	0	0-24" Moist, Brown, loosey MF SAND, little silt, trace f, gravel	J		
1								
2					24"-50" Moist, TAN, M. Dense, MC SAND, trace f gravel, saturated @ 50"			
3								
4								
5			6/30	0	0-3" SAA			
6					3"-30" Saturated, gray MF gravel, some MC SAND, trace silt			
7								
8								
9								
10								
Remarks: Low Recovery due to gravel (5-10)								
Sample Types					Consistency vs. Blowcount / Foot			
S - Split-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A - Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: >30			
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation			

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>Zohar Lavy</u>		BORING/WELL ID: <u>PAC-79-MW-TMW-23</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>Joe Cornack</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>Clear, up to high 70s</u>			
PROJECT NUMBER: 748810-					CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u>			
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		LOCATION PLAN	
WATER LEVEL: _____					DATE/TIME START: <u>8/3/16 @ 1050</u>		Oceanport, New Jersey	
DATE: _____					DATE/TIME FINISH: <u>8/3/16 @ 1110</u>			
TIME: _____					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: _____					DROP OF HAMMER: <u>N/A</u>			
					TYPE OF HAMMER: <u>N/A</u>			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0		60/60		0.0	0"-16" - Dry, loose brown, f-m. sand, tr. silt, tr. organics.			
1					tr. f-m. sub-ang. gravel.			
2					16"-25" - Dry, m. dense dark brown, f-m. sand, little silt.			
3					25"-35" - Dry, v. stiff, grey/green/orange clay.			
4					35"-52" - Moist (SAA) grey/green.			
5					52"-60" - Moist, v. dense/stiff, grey-orange clay, some sand.			
6		60/52		0.0	0"-14" - Moist, m. stiff, green/brown clay, little sand.			
7					14"-30" - Wet, loose, orange/red m. sand, tr. m. sub round gravel.			
8					30"-42" - Wet, loose, light brown, m-c. sand, some f-c. sub-round gravel.			
9					42"-60" - Wet, loose, brown/dark grey sand, little silt.			
10					60s @ 10'			
Remarks: <u>Drilled installed 1" temp well w/ screen from 3-13' bgs.</u>								
Sample Types					Consistency vs. Blowcount / Foot			
S - Split-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A - Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: > 30			
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation			

Soil Boring Log

CLIENT: <u>USACE</u>	INSPECTOR: <u>Sameera Paralkar</u>	BORING/WELL ID: <u>PAR-79-MP-TMW04</u>
PROJECT NAME: <u>FTMM - ECP</u>	DRILLER: <u>Joe Barnack</u>	LOCATION DESCRIPTION
PROJECT LOCATION: <u>FTMM Parcel</u>	WEATHER: <u>clear 79F</u>	
PROJECT NUMBER: <u>748810-</u>	CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u>	
GROUNDWATER OBSERVATIONS	RIG TYPE: <u>Geoprobe(R) 7822DT</u>	LOCATION PLAN
WATER LEVEL: _____	DATE/TIME START: <u>1130 8/3/16</u>	Oceanport, New Jersey
DATE: _____	DATE/TIME FINISH: <u>1200 8/3/16</u>	
TIME: _____	WEIGHT OF HAMMER: <u>N/A</u>	
MEAS. FROM: _____	DROP OF HAMMER: <u>N/A</u>	
	TYPE OF HAMMER: <u>N/A</u>	

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0			60/60	0	0-6 dry, loose, dark brown, f sand, some organics trace f subgravel trace silt		
1							
2					6-30 dry, medium dense, brown, f. sand, trace silt, little gravel		
3					26-30 SAA, trace brick and coal 30-55 dry, v. stiff, olive/orange, clay		
4					55-60 SAA, red/olive clay 54-56 SAA clay some sand		
5			25/60	0	0-16 moist, v. stiff, olive/red clay trace sand, ~~clay~~ ^{SP} trace gravel		
6					16-25 wet, loose, brown/tan med-coarse sand, little gravel, fine-med subgravel gravel		
7							
8							
9							
10							

Remarks: Driller installed 1" temp well w/ screen 3-13' bgs

Sample Types	Consistency vs. Blowcount / Foot		
S - Split-Spoon	Granular (Sand & Gravel)	Fine Grained (Silt & Clay)	and - 35-50%
U - Undisturbed Tube	V. Loose: 0-4 Dense: 30-50	V. Soft: <2 Stiff: 8-15	some - 20-35%
C - Rock Core	Loose: 4-10 V. Dense: >50	Soft: 2-4 V. Stiff: 15-30	little - 10-20%
A - Auger Cuttings	M. Dense: 10-30	M. Stiff: 4-8 Hard: >30	trace - <10%
			moisture, density, color, gradation

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>C. W. Watson</u>		BORING/WELL ID: <u>PAF-79-MP-TM008</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>Joe Brunick</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>70°F clear</u>		Parcel 79, MP	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)			
GROUNDWATER OBSERVATIONS					RIG TYPE: Geoprobe(R) 7822DT		LOCATION PLAN	
WATER LEVEL: <u>~6'</u>					DATE/TIME START: <u>8/4/16 0900</u>		Oceanport, New Jersey	
DATE: <u>8/4/16</u>					DATE/TIME FINISH: <u>8/4/16 0910</u>			
TIME: <u>0915</u>					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: <u>Bas</u>					DROP OF HAMMER: <u>N/A</u>			
					TYPE OF HAMMER: <u>N/A</u>			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			<u>60/66</u>	<u>0</u>	0-4" Dry, loose, mf SAND, Brown trace silt, grass/rocks			
1					4"-26" moist, Brown, M. Dense, mf SAND, trace silt			
2					26"-60" moist, gray/orange Brown/ Brown, mf SAND			
3								
4								
5			<u>60/55</u>	<u>0</u>	0-23" SAA, saturated @ 13"			
6					23"-42" wet, soft, light gray clay, some f SAND			
7					42"-55" saturated, M. Dense, orange/gray mf SAND, trace silt, trace f gravel			
8								
9								
10								
Remarks:								
Sample Types					Consistency vs. Blowcount / Foot			
S -- Split-Spoon					Granular (Sand & Gravel)			
U -- Undisturbed Tube					Fine Grained (Silt & Clay)			
C -- Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-16			
A -- Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: >30			
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation			

Soil Boring Log

CLIENT: USACE PROJECT NAME: FTMM - ECP PROJECT LOCATION: FTMM Parcel PROJECT NUMBER: 748810-					INSPECTOR: C. WATSON DRILLER: JOE BARNAK WEATHER: CONTRACTOR: East Coast Drilling, Inc. (ECDI) RIG TYPE: Geoprobe(R) 7822DT DATE/TIME START: 0940 DATE/TIME FINISH: 1000 WEIGHT OF HAMMER: N/A DROP OF HAMMER: N/A TYPE OF HAMMER: N/A		BORING/WELL ID: PAF-K- MP- T14009 LOCATION DESCRIPTION: Parcel 79 MP LOCATION PLAN: Oceanport, New Jersey																		
GROUNDWATER OBSERVATIONS WATER LEVEL: ~4 DATE: 8/4/16 TIME: 0630 MEAS. FROM:																									
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS																		
0			60/60	0	0-19" moist, Brown, medium fine SAND, little silt																				
1					19"-39" moist, grey / orange, stiff, clay and fine SAND, trace silt																				
2																									
3					39"-60" moist, dark grey and orange medium fine SAND, little silt trace clay, saturated @ 48"																				
4																									
5				0	0-60" SAA, saturated																				
6																									
7																									
8																									
9																									
10																									
Remarks:																									
Sample Types S -- Split-Spoon U -- Undisturbed Tube C -- Rock Core A -- Auger Cuttings					Consistency vs. Blowcount / Foot <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Granular (Sand & Gravel)</th> <th colspan="2">Fine Grained (Silt & Clay)</th> </tr> <tr> <td>V. Loose: 0-4</td> <td>Dense: 30-50</td> <td>V. Soft: <2</td> <td>Stiff: 8-15</td> </tr> <tr> <td>Loose: 4-10</td> <td>V. Dense: >50</td> <td>Soft: 2-4</td> <td>V. Stiff: 15-30</td> </tr> <tr> <td>M. Dense: 10-30</td> <td></td> <td>M. Stiff: 4-8</td> <td>Hard: >30</td> </tr> </table>			Granular (Sand & Gravel)		Fine Grained (Silt & Clay)		V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15	Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30	M. Dense: 10-30		M. Stiff: 4-8	Hard: >30	and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation	
Granular (Sand & Gravel)		Fine Grained (Silt & Clay)																							
V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15																						
Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30																						
M. Dense: 10-30		M. Stiff: 4-8	Hard: >30																						

Soil Boring Log

CLIENT: USACE	INSPECTOR: <u>Zachary Lavy</u>	BORINGWELL ID: <u>PAL-79-MP-TM02</u>
PROJECT NAME: FTMM - ECP	DRILLER: <u>See Barnack</u>	LOCATION DESCRIPTION
PROJECT LOCATION: FTMM Parcel	WEATHER: <u>Clear, up to high 70s</u>	
PROJECT NUMBER: 748810-	CONTRACTOR: East Coast Drilling, Inc. (ECDI)	
GROUNDWATER OBSERVATIONS	RIG TYPE: Geoprobe(R) 7822DT	LOCATION PLAN
WATER LEVEL:	DATE/TIME START: <u>8/3/16 @ 1000</u>	Oceanport, New Jersey
DATE:	DATE/TIME FINISH: <u>8/3/16 @ 1015</u>	
TIME:	WEIGHT OF HAMMER: N/A	
MEAS. FROM:	DROP OF HAMMER: N/A	
	TYPE OF HAMMER: N/A	

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0			60/60	0	Dry, m. dense, dark brown f. sand, some silt, little		
1					f-m. sub round gravel, tr. organics (0"-6")		
2					6"-22" - SAA (no organics)		
3					22"-54" - Moist, stiff, light brown-light green clay		
4					54"-60" - SAA (little orange f. sand), solvent odor		
5			73.5	4	0"-12" - Dry, m. dense, grey/brown clay and f. sand, slight solvent odor		
6					(clay lenses)		
7			2.5		12"-36" - Wet, loose, orange-ton, f.c. sand, little f.		
8					sub. round - sub. org. gravel		
9			0.0		24"-28" - SAA (some gravel)		
10					36"-60" - Wet, loose, dark brown, f. sand, little silt		

Remarks:

Sample Types	Consistency vs. Blowcount / Foot	
S - Split-Spoon	Granular (Sand & Gravel)	Fine Grained (Silt & Clay)
U - Undisturbed Tube	V. Loose: 0-4 Dense: 30-50	V. Soft: <2 Stiff: 8-15
C - Rock Core	Loose: 4-10 V. Dense: >50	Soft: 2-4 V. Stiff: 15-30
A - Auger Cuttings	M. Dense: 10-30	M. Stiff: 4-8 Hard: >30
		and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation

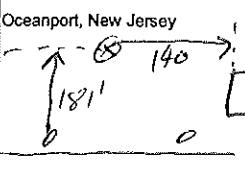
Soil Boring Log

CLIENT: USACE					INSPECTOR: <i>Zaker Lacy</i>		BORING/WELL ID: <i>PAR-79-118-11W-02</i>	
PROJECT NAME: FTMM - ECP					DRILLER: <i>Lee Pj. 1</i>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <i>Clear Pj. 1</i>			
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)			
GROUNDWATER OBSERVATIONS					RIG TYPE: Geoprobe(R) 7822DT		LOCATION PLAN	
WATER LEVEL: _____					DATE/TIME START: _____		Oceanport, New Jersey	
DATE: _____					DATE/TIME FINISH: _____			
TIME: _____					WEIGHT OF HAMMER: N/A			
MEAS. FROM: _____					DROP OF HAMMER: N/A			
TYPE OF HAMMER: N/A								
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
10		<i>64/60</i>		<i>0.0</i>	<i>0"-6" - wet, v. loose, gray / dark brown, f.-c sand, some gravel, tr. silt.</i> <i>6"-30" - wet, m. dense, black f. sand, some silt</i> <i>30"-60" - wet, m. dense, black, f. sand, tr. silt</i>			
11								
12								
13								
14								
15					<i>EOB @ 15'</i>			
16								
17								
18								
19								
20								
Remarks: <i>Driller installed 1" temp. well w/ screen from 4-14' bgs.</i>								
Sample Types					Consistency vs. Blowcount / Foot			
S - Split-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A - Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: >30			
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation			

Soil Boring Log

CLIENT: USACE PROJECT NAME: FTMM - ECP PROJECT LOCATION: FTMM Parcel PROJECT NUMBER: 748810-					INSPECTOR: <u>Zohar Lavy</u> DRILLER: <u>Joe Barnack</u> WEATHER: <u>Clear, up to high 70's</u> CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u>		BORING/WELL ID: <u>PAL-MT-TNW05</u> LOCATION DESCRIPTION:																
GROUNDWATER OBSERVATIONS WATER LEVEL: _____ DATE: _____ TIME: _____ MEAS. FROM: _____					RIG TYPE: <u>Geoprobe(R) 7822DT</u> DATE/TIME START: <u>8/3/16 @ 10:15</u> DATE/TIME FINISH: <u>8/3/16 @ 14:45</u> WEIGHT OF HAMMER: <u>N/A</u> DROP OF HAMMER: <u>N/A</u> TYPE OF HAMMER: <u>N/A</u>		LOCATION PLAN Oceanport, New Jersey 																
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS																
0		60/60		0.0	Dry, loose, brown, f-m. sand, little organics, tr. silt, tr. f. sub-round gravel (0-10")																		
1					10"-30" - Dry, m. dense, brown/orange f-m. sand, little silt																		
2					30"-52" - Moist, soft, grey/orange clay																		
3					52"-60" - Moist, loose, brown, f-m. sand																		
4																							
5		60/40		0.0	0"-20" - wet, loose, grey, f-m. sand tr. f. sub-round gravel, little silt																		
6					20"-30" - SAA (orange), little f-m. sub-round gravel																		
7					30"-40" - SAA (brown + orange gravel)																		
8																							
9																							
10																							
Remarks: <u>Driller installs Temp. MW w/ screen from 3-13' bgs.</u> <u>EOS @ 10'</u>																							
Sample Types S -- Split-Spoon U -- Undisturbed Tube C -- Rock Core A -- Auger Cuttings					Consistency vs. Blowcount / Foot <table border="1"> <tr> <th colspan="2">Granular (Sand & Gravel)</th> <th colspan="2">Fine Grained (Silt & Clay)</th> </tr> <tr> <td>V. Loose: 0-4</td> <td>Dense: 30-50</td> <td>V. Soft: <2</td> <td>Stiff: 8-15</td> </tr> <tr> <td>Loose: 4-10</td> <td>V. Dense: >50</td> <td>Soft: 2-4</td> <td>V. Stiff: 15-30</td> </tr> <tr> <td>M. Dense: 10-30</td> <td></td> <td>M. Stiff: 4-8</td> <td>Hard: >30</td> </tr> </table>			Granular (Sand & Gravel)		Fine Grained (Silt & Clay)		V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15	Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30	M. Dense: 10-30		M. Stiff: 4-8	Hard: >30
Granular (Sand & Gravel)		Fine Grained (Silt & Clay)																					
V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15																				
Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30																				
M. Dense: 10-30		M. Stiff: 4-8	Hard: >30																				
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation																		

Soil Boring Log

CLIENT: USACE PROJECT NAME: FTMM - ECP PROJECT LOCATION: FTMM Parcel PROJECT NUMBER: 748810-					INSPECTOR: <u>Zohar Lavy</u> DRILLER: <u>Joe Gurnick</u> WEATHER: <u>clear, up to high 70's</u> CONTRACTOR: East Coast Drilling, Inc. (ECDI)		BORING/WELL ID: <u>PAR-MP-TMW-06</u> LOCATION DESCRIPTION: LOCATION PLAN: Oceanport, New Jersey 																
GROUNDWATER OBSERVATIONS WATER LEVEL: <u>11.8</u> DATE: <u>8/3/16</u> TIME: <u>1:51</u> MEAS. FROM: <u>Top of PVC</u>					RIG TYPE: <u>Geoprobe(R) 7822DT</u> DATE/TIME START: <u>8/3/16 @ 14:50</u> DATE/TIME FINISH: <u>8/3/16 @ 15:10</u> WEIGHT OF HAMMER: <u>N/A</u> DROP OF HAMMER: <u>N/A</u> TYPE OF HAMMER: <u>N/A</u>		66g. 451																
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REG.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS																
0			60/46	12.0	0"-8" - Dry, loose, dark brown, f. sand, little silt, little organics, tr. f. sub round gravel																		
1					8"-16" - SAA (no organics)																		
2					16"-20" - Concrete																		
3					20"-40" - Moist, grey/green clay, tr. f. sand																		
4					40"-46" - Moist, m. dense, stiff, orange/grey f. sand and clay																		
5			60/46	12.0	0"-14" - Dry, m. dense, brown/orange, f. sand, little silt																		
6					14"-18" - little f. m. round gravel																		
7					18"-44" - wet (SAA)																		
8					44"-46" - Moist, m. dense, brown/orange, f. sand, little silt																		
9																							
10																							
Remarks: <u>Drillers installed temp. well w/ screen @ 4-14' bgs.</u>																							
Sample Types S - Split-Spoon U - Undisturbed Tube C - Rock Core A - Auger Cuttings					Consistency vs. Blowcount / Foot <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Granular (Sand & Gravel)</th> <th colspan="2">Fine Grained (Silt & Clay)</th> </tr> <tr> <td>V. Loose: 0-4</td> <td>Dense: 30-50</td> <td>V. Soft: <2</td> <td>Stiff: 8-15</td> </tr> <tr> <td>Loose: 4-10</td> <td>V. Dense: >50</td> <td>Soft: 2-4</td> <td>V. Stiff: 15-30</td> </tr> <tr> <td>M. Dense: 10-30</td> <td></td> <td>M. Stiff: 4-8</td> <td>Hard: > 30</td> </tr> </table>			Granular (Sand & Gravel)		Fine Grained (Silt & Clay)		V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15	Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30	M. Dense: 10-30		M. Stiff: 4-8	Hard: > 30
Granular (Sand & Gravel)		Fine Grained (Silt & Clay)																					
V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15																				
Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30																				
M. Dense: 10-30		M. Stiff: 4-8	Hard: > 30																				
and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation																							

Soil Boring Log

CLIENT: USACE					INSPECTOR: C. Watson		BORING/WELL ID: PAP-79-MP-Two?	
PROJECT NAME: FTMM - ECP					DRILLER: J. BARNAK		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: 75°F		Prod 74	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)			
GROUNDWATER OBSERVATIONS					RIG TYPE: Geoprobe(R) 7822DT		LOCATION PLAN	
WATER LEVEL: 26.5					DATE/TIME START: 0920		Oceanport, New Jersey	
DATE: 8/4/16					DATE/TIME FINISH: 0935			
TIME: 0946					WEIGHT OF HAMMER: N/A			
MEAS. FROM: BAS					DROP OF HAMMER: N/A			
					TYPE OF HAMMER: N/A			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			60/60	0	0-22" Dry, tan/brown, loose, mf SAND, trace gravel			
1					22"-34" moist, gray/brown, stiff f SAND AND clay,			
2					trace silt			
3					34"-56" moist, gray/tan, M. stiff f SAND AND clay, trace silt			
4					56"-60" moist, brown/tan/gray mf SAND, little silt			
5			60/60		0-14" STA			
6					14"-36" saturated, orange brown, MC SAND, little fine gravel, trace silt			
7					36"-60" wet, dark gray and orange, mf SAND, little clay, trace silt			
8								
9								
10								
Remarks:								
Sample Types					Consistency vs. Blowcount / Foot			
S - Split-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A - Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: >30			
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation			

Soil Boring Log

CLIENT: <u>USACE</u> PROJECT NAME: <u>FTMM - ECP</u> PROJECT LOCATION: <u>FTMM Parcel</u> PROJECT NUMBER: <u>748810-</u>					INSPECTOR: _____ DRILLER: _____ WEATHER: _____ CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u> RIG TYPE: <u>Geoprobe (B) 7822DT</u> DATE/TIME START: _____ DATE/TIME FINISH: _____ WEIGHT OF HAMMER: <u>N/A</u> DROP OF HAMMER: <u>N/A</u> TYPE OF HAMMER: <u>N/A</u>		BORING/WELL ID: <u>PAF-75-MR-TMU07</u> LOCATION DESCRIPTION: _____ LOCATION PLAN: _____ Oceanport, New Jersey																
GROUNDWATER OBSERVATIONS WATER LEVEL: _____ DATE: _____ TIME: _____ MEAS. FROM: _____																							
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS																
0			60/60	0	0-26" SAA																		
1					26"-60" Moist, Black, m. Area f SAND, fine clay, fine silt																		
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
Remarks:																							
Sample Types S -- Split-Spoon U -- Undisturbed Tube C -- Rock Core A -- Auger Cuttings					Consistency vs. Blowcount / Foot <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">Granular (Sand & Gravel)</th> <th colspan="2">Fine Grained (Silt & Clay)</th> </tr> <tr> <td>V. Loose: 0-4</td> <td>Dense: 30-50</td> <td>V. Soft: <2</td> <td>Stiff: 8-15</td> </tr> <tr> <td>Loose: 4-10</td> <td>V. Dense: >50</td> <td>Soft: 2-4</td> <td>V. Stiff: 15-30</td> </tr> <tr> <td>M. Dense: 10-30</td> <td></td> <td>M. Stiff: 4-8</td> <td>Hard: >30</td> </tr> </table>			Granular (Sand & Gravel)		Fine Grained (Silt & Clay)		V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15	Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30	M. Dense: 10-30		M. Stiff: 4-8	Hard: >30
Granular (Sand & Gravel)		Fine Grained (Silt & Clay)																					
V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15																				
Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30																				
M. Dense: 10-30		M. Stiff: 4-8	Hard: >30																				
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation																		

Soil Boring Log

CLIENT: USACE	INSPECTOR: C. WATSON	BORING/WELL ID: PAR-79-142-TM209
PROJECT NAME: FTMM - ECP	DRILLER: J. BARNAK	LOCATION DESCRIPTION
PROJECT LOCATION: FTMM Parcel	WEATHER: 80°F Clear	Parcel 79-142
PROJECT NUMBER: 748810-	CONTRACTOR: East Coast Drilling, Inc. (ECDI)	LOCATION PLAN
GROUNDWATER OBSERVATIONS	RIG TYPE: Geoprobe(R) 7822DT	Oceanport, New Jersey
WATER LEVEL: ~4	DATE/TIME START: 1320	
DATE: 8/4/16	DATE/TIME FINISH: 1340	
TIME: 1350	WEIGHT OF HAMMER: N/A	
MEAS. FROM:	DROP OF HAMMER: N/A	
	TYPE OF HAMMER: N/A	

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0			60/48	0	0-12" light Brown, dry, mt SAND, trace silt		
1					12"-22" moist, dark grey, mt SAND and f gravel, trace silt		
2					22"-48" moist, orange/brown/grey mt SAND, trace silt trace f gravel, saturated @ 48"		
3							
4							
5			60/36	0	0-30" SAA, saturated, 1 piece of cobble @ top		
6					30-36" wht, blue, f SAND, little silt, much present		
7							
8							
9							
10							

Remarks:

Sample Types

S - Split-Spoon
 U - Undisturbed Tube
 C - Rock Core
 A - Auger Cuttings

Consistency vs. Blowcount / Foot

Granular (Sand & Gravel)		Fine Grained (Silt & Clay)	
V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15
Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30
M. Dense: 10-30		M. Stiff: 4-8	Hard: >30

and - 35-50%
 some - 20-35%
 little - 10-20%
 trace - <10%
 moisture, density, color, gradation

Soil Boring Log

CLIENT: USACE	INSPECTOR: <i>Zachary Lavy</i>	BORING/WELL ID: <i>PAR-79-MP-TM01</i>
PROJECT NAME: FTMM - ECP	DRILLER: <i>Joe Garbuck</i>	LOCATION DESCRIPTION: <i>PAR-79</i>
PROJECT LOCATION: FTMM Parcel	WEATHER: <i>V. cloudy up to midday</i>	
PROJECT NUMBER: 748810-	CONTRACTOR: East Coast Drilling, Inc. (ECDI)	
GROUNDWATER OBSERVATIONS	RIG TYPE: Geoprobe(R) 7822DT	LOCATION PLAN
WATER LEVEL: _____	DATE/TIME START: <i>8/3/16 @ 0915</i>	Oceanport, New Jersey
DATE: _____	DATE/TIME FINISH: <i>8/3/16 @ 0940</i>	
TIME: _____	WEIGHT OF HAMMER: N/A <i>Direct Push</i>	
MEAS. FROM: _____	DROP OF HAMMER: N/A	
	TYPE OF HAMMER: N/A	

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0					0"-6" - Dry, loose, dark brown f-m sand, tr. organics (roots), tr. silt, tr. m. sub round gravel		
1					6"-16" - SAA (no organics)		
2					16"-24" - Dry, m. dense, dark brown f. sand, little silt, tr. wood, tr. clay, tr. gravel		
3					24"-42" - SAA (little clay)		
4					42"-44" - Moist, soft, light green clay, some silt, tr. cobble		
5					0"-22" - Moist, m. stiff, light brown-light green, clay, some silt (SAA w/ f. sand, streaks @ 6")		
6					22"-30" - Moist, m. dense, brown f. sand, little gravel, little silt		
7					30"-54" - Wet, m. dense, fine grey/brown f. sand, tr. silt		
8					54"-60" - SAA (black/dark brown)		
9							
10							

Remarks:

Sample Types

S - Split-Spoon
 U - Undisturbed Tube
 C - Rock Core
 A - Auger Cuttings

Consistency vs. Blowcount / Foot

Granular (Sand & Gravel)		Fine Grained (Silt & Clay)	
V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15
Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30
M. Dense: 10-30		M. Stiff: 4-8	Hard: > 30

and - 35-50%
 some - 20-35%
 little - 10-20%
 trace - <10%

moisture, density, color, gradation

Soil Boring Log

CLIENT: USACE	INSPECTOR: <u>Zhar Lavy</u>	BORING/WELL ID: <u>PAR-74-MP-TMW-01</u>
PROJECT NAME: FTMM - ECP	DRILLER: <u>Coe PD 1</u>	LOCATION DESCRIPTION
PROJECT LOCATION: FTMM Parcel	WEATHER: <u>Cool PD 1</u>	
PROJECT NUMBER: 748810-	CONTRACTOR: East Coast Drilling, Inc. (ECDI)	
GROUNDWATER OBSERVATIONS	RIG TYPE: Geoprobe(R) 7822DT	LOCATION PLAN
WATER LEVEL: _____	DATE/TIME START: _____	Oceanport, New Jersey
DATE: _____	DATE/TIME FINISH: _____	
TIME: _____	WEIGHT OF HAMMER: N/A	
MEAS. FROM: _____	DROP OF HAMMER: N/A	
	TYPE OF HAMMER: N/A	

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0					0-30" - wet, loose, black f. sand, little silt		
1					30"-60" - SAA (M. dense, tr. silt)		
2							
3							
4							
5							
6							
7							
8							
9							
10							

EOS @ #71

Remarks: Driller advanced to 17' & installed temp well(1") w/ screen from 7-17'-pulled up to 5-15'

Sample Types	Consistency vs. Blowcount / Foot	
S - Split-Spoon	Granular (Sand & Gravel)	Fine Grained (Silt & Clay)
U - Undisturbed Tube	V. Loose: 0-4 Dense: 30-50	V. Soft: <2 Stiff: 8-15
C - Rock Core	Loose: 4-10 V. Dense: >50	Soft: 2-4 V. Stiff: 15-30
A - Auger Cuttings	M. Dense: 10-30	M. Stiff: 4-8 Hard: > 30
		and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: PAR 51-202 mmbj

PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling

AOC # (AREA): parcel 79

WELL PERMIT #:

DATE: 5/25/16

SCREENED INTERVAL (TOC): 7-17

SAMPLING PERSONNEL NAME: C. Watson

WELL DIAMETER (in.): 4

SAMPLING PERSONNEL NAME:

BOREHOLE DIAMETER FACTORS

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 0

FEET OF SATURATED SCREEN (ft): 10

WELL DEPTH (TOC): 17

DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 5.18

FEET OF WATER IN WELL (ft): 11.85

PUMP INTAKE DEPTH (ft below TOC): 9.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1120	X		4.34	NA	0.747	NA	365.0	NA	3.38	NA	7.59	NA	17.62	NA	200	5.28
1125	X		3.94	0.44	0.753	0.006	371.2	26.2	2.64	0.74	2.79	4.8	16.80	0.82	200	5.35
1130	X		3.94	0	0.745	0.008	400.9	9.7	2.20	0.44	1.69	1.10	17.27	0.47	150	5.40
1135	X		3.96	0.02	0.748	0.003	464.3	3.4	2.10	0.10	1.10	0.59	17.33	0.06	150	5.43
1140	X		3.97	0.01	0.753	0.015	408.3	4.0	1.97	0.13	0.88	0.22	17.23	0.10	150	5.45
1145	X		3.97	0	0.754	0.001	410.1	1.8	1.89	0.08	0.96	0.08	17.11	0.12	150	5.46
1150	X		3.78	0.01	0.757	0.002	416.0	5.9	1.85	0.04	0.70	0.26	17.09	0.02	150	5.46
1155	X		3.78	0	0.757	0	417.9	1.9	1.82	0.03	0.79	0.09	17.13	0.04	150	5.45

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: 202M WOI

SAMPLING INFORMATION

SAMPLING DEVICE: QED Sample Pro

SAMPLE NAME (ID): 202MW01-9.5

[illegible]

QAIQC SAMPLES:

DUPLICATE SAMPLE COLLECTED: YES or NO

DUPLICATE SAMPLE NAME (ID): _____

MS/MSD SAMPLE COLLECTED: YES or NO

MS / MSD SAMPLE NAME (ID): _____

PURGING AND SAMPLING COMMENTS:

INVESTIGATION DERIVED WASTE (IDW): / /

n): GAC

Date:

ferred to Drum:

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: 202MWD1

PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling

WELL PERMIT #:

AOC # (AREA): parcel 79

DATE: 5/25/16

SCREENED INTERVAL (TOC): 7-17

SAMPLING PERSONNEL NAME: J. Watson

WELL DIAMETER (in.): 4

SAMPLING PERSONNEL NAME:

BOREHOLE DIAMETER FACTORS

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 0

FEET OF SATURATED SCREEN (ft): 10

WELL DEPTH (TOC): 17

DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 5.18

FEET OF WATER IN WELL (ft): 11.85

PUMP INTAKE DEPTH (ft below TOC): 9.5 14.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1220	X		3.99	NA	0.814	NA	407.3	NA	3.66	NA	2.07	NA	21.07	NA	150	5.37
1225	Y		3.93	0.06	0.792	0.002	420.4		1.99	1.67	2.36	0.25	17.65	4.02	150	5.39
1230	Y		3.88	0.05	0.775	0.022	434.0	23.6	1.81	0.18	1.10	1.26	16.65	0.40	150	5.39
1235	Y		3.88	X	0.773	0.002	433.8	0.2	1.42	0.35	1.27	0.17	16.50	0.15	150	5.39
1245	X		3.89	0.01	0.771	0.002	433.1	0.7	1.39	0.03	1.04	0.23	16.43	0.07	150	5.40
1250	X		3.89	X	0.770	0.001	432.7	0.4	1.36	0.03	1.22	0.18	16.38	0.05	150	5.39

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER		
PARSONS	CLIENT: USACE	WELL #: 202M609

CLIENT: USACE

WELL #: 202Mw

SAMPLING INFORMATION	
SAMPLING DEVICE:	QED Sample Pro
SAMPLE NAME (ID):	202MW01-14.5

SAMPLE NAME (ID): 202MW01-14.5

SAMPLE NAME (ID): 202MWO1-14.5

[illegible]

QA/QC SAMPLES:

DUPLICATE SAMPLE COLLECTED: YES or NO

DUPLICATE SAMPLE NAME (ID): _____

MS/MSD SAMPLE COLLECTED: YES or NO

MS / MSD SAMPLE NAME (ID): _____

DUPLICATE SAMPLE COLLECTED: YES ☐ NO ☒

DUPLICATE SAMPLE NAME (ID):

MS/MSD SAMPLE COLLECTED: YES or ☒ NO

MS / MSD SAMPLE NAME (ID):

PURGING AND SAMPLING COMMENTS:

INVESTIGATION DERIVED WASTE (IDW):

Date:

Volume Transferred to Drum:

Drum Number:

CAC

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS		CLIENT: USACE		WELL #: 490MW01
PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling			WELL PERMIT #:	
AOC # (AREA): parcel 79			DATE: 5/26/16	
SCREENED INTERVAL (TOC): 7-22			SAMPLING PERSONNEL NAME: C. WATSON	
WELL DIAMETER (in.): 2			SAMPLING PERSONNEL NAME:	

BOREHOLE DIAMETER FACTORS											
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 0	FEET OF SATURATED SCREEN (ft): 15
WELL DEPTH (TOC): 22	DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 4.90
FEET OF WATER IN WELL (ft): 17.04	PUMP INTAKE DEPTH (ft below TOC): 9.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1336	X		5.44	NA	0.728	NA	74.6	NA	4.25	NA	12.0	NA	21.97	NA	200	4.90
1335	X		5.38	0.006	0.734	0.006	80.6	6.0	2.67	1.58	19.6	2.6	18.69	3.28	200	5.01
1340	X		5.42	0.004	0.729	0.005	83.6	3.0	2.43	0.24	15.0	4.6	17.39	1.30	175	5.13
1345	X		5.43	0.001	0.729	0	82.1	0.9	1.95	0.48	16.2	1.2	18.70	1.31	175	5.13
1350	X		5.45	0.002	0.725	0	82.1	0.0	1.82	0.13	15.0	0.0	19.04	0.34	175	5.13
1355	X		5.45	0	0.725	0.004	83.6	1.5	1.75	0.07	14.9	0.7	19.68	0.04	175	5.13
1400	X		5.46	0.001	0.724	0.001	84.0	0.4	1.72	0.03	14.7	0.2	19.15	0.07	175	5.13
1405	X		5.46	0	0.725	0.001	84.2	0.2	1.68	0.04	14.5	0.2	19.20	0.05	175	5.13

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: 490PMW01-95

SAMPLING INFORMATION

SAMPLING DEVICE: QED Sample Pro

SAMPLE NAME (ID): 450MW01-9.5

[illegible]

QAIQC SAMPLES:

DUPLICATE SAMPLE COLLECTED: YES or NO

DUPLICATE SAMPLE NAME (ID):

MS/MSD SAMPLE COLLECTED: YES or NO

MS / MSD SAMPLE NAME (ID):

PURGING AND SAMPLING COMMENTS:

INVESTIGATION DERIVED WASTE (IDW):

CAC

[illegible]

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: 490MW01

PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling

WELL PERMIT #:

AOC # (AREA): parcel 79

DATE: 5/25/16

SCREENED INTERVAL (TOC): 7-22

SAMPLING PERSONNEL NAME: C. Watson

WELL DIAMETER (in.): 2"

SAMPLING PERSONNEL NAME:

BOREHOLE DIAMETER FACTORS

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 0

FEET OF SATURATED SCREEN (ft): 15

WELL DEPTH (TOC): 22

DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 4.56

FEET OF WATER IN WELL (ft): 17.04

PUMP INTAKE DEPTH (ft below TOC): 14.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1425	Y		5.41	NA	0.723	NA	95.9	NA	5.06	NA	15.2	NA	15.11	NA	175	5.13
1430	Y		5.42	0.01	0.709	0.014	97.8	1.9	3.90	1.16	13.6	1.6	14.99	0.12	175	5.13
1435	Y		5.43	0.01	0.706	0.003	98.6	0.8	3.26	0.14	12.5	0.7	14.94	0.05	175	5.13
1440	Y		5.43	0	0.705	0.001	99.3	0.7	3.62	0.08	12.7	0.2	14.87	0.07	175	5.13
1445	Y		5.43	0	0.705	0	102.6	2.3	3.61	0.07	13.1	0.4	14.84	0.03	175	5.13
1450			5.43	0	0.705	0	104.1	1.5	3.57	0.04	11.6	1.5	14.80	0.04	175	5.13

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: 490mw01

SAMPLING INFORMATION

SAMPLING DEVICE: QED Sample Pro

SAMPLE NAME (ID): 490mw01-14.5

SAMPLE PARAMETER	TIME	CONTAINER	COLOR	TURBIDITY	COMMENTS
VOCs	1450	(3) VOA	Clear	10.8	
SVOCs	1450	(2) 1L Amber	Clear	10.8	

QA/QC SAMPLES:

DUPLICATE SAMPLE COLLECTED: YES or ☒ NO

DUPLICATE SAMPLE NAME (ID):

MS/MSD SAMPLE COLLECTED: YES or ☒ NO

MS / MSD SAMPLE NAME (ID):

PURGING AND SAMPLING COMMENTS:

INVESTIGATION DERIVED WASTE (IDW):

Date:

Volume Transferred to Drum:

Drum Number:

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: 490MW01 ~~488~~

PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling

WELL PERMIT #:

AOC # (AREA): R-01-079

DATE: 5/25/16

SCREENED INTERVAL (TOC): 7-22

SAMPLING PERSONNEL NAME: C. Watson

WELL DIAMETER (in.): 2"

SAMPLING PERSONNEL NAME:

BOREHOLE DIAMETER FACTORS

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 0

FEET OF SATURATED SCREEN (ft): 15

WELL DEPTH (TOC): 22

DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 4.96

FEET OF WATER IN WELL (ft): 17.04

PUMP INTAKE DEPTH (ft below TOC): 19.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1520	X		5.43	NA	0.710	NA	106.7	NA	5.16	NA	10.6	NA	14.75	NA	175	5.06
1525	X		5.44	0.01	0.722	0.012	105.8	0.9	4.83	0.17	11.2	0.6	14.70	0.05	175	5.08
1530	X		5.44	0	0.725	0.003	104.6	1.2	0.63	0.20	11.8	0.6	14.62	0.08	175	5.09
1535	X		5.45	0.01	0.726	0.001	104.1	0.5	4.39	0.24	9.86	1.94	14.63	0.01	175	5.09
1540	X		5.45	0	0.726	0	103.8	0.3	4.27	0.12	9.10	0.76	14.60	0.03	175	5.10
1545	X		5.45	0	0.727	0.001	103.4	0.4	4.10	0.17	8.82	0.28	14.61	0.01	175	5.10

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: 450mW01

SAMPLING INFORMATION

SAMPLING DEVICE: QED Sample Pro

SAMPLE NAME (ID): 490, MONOI-19.5

[illegible]

QAIQC SAMPLES:

DUPLICATE SAMPLE COLLECTED: YES or NO

DUPLICATE SAMPLE NAME (ID):

MS/MSD SAMPLE COLLECTED: YES or NO

MS / MSD SAMPLE NAME (ID): _____

PURGING AND SAMPLING COMMENTS:

INVESTIGATION DERIVED WASTE (IDW):

CAC

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: M16MW08

PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling

WELL PERMIT #:

AOC # (AREA): Parcel 29

DATE: 5/25/16

SCREENED INTERVAL (TOC): 7-17

SAMPLING PERSONNEL NAME: J. Lalzo

WELL DIAMETER (in.): 4

SAMPLING PERSONNEL NAME:

BOREHOLE DIAMETER FACTORS

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 0-0

FEET OF SATURATED SCREEN (ft): 10

WELL DEPTH (TOC): 17.00

DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 4.01

FEET OF WATER IN WELL (ft): 12.99

PUMP INTAKE DEPTH (ft below TOC): 9.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1250	X		4.76	NA	0.595	NA	191.5	NA	2.62	NA	1.40	NA	21.28	NA	150	4.05
1255	X		3.76	1.08	0.641	0.046	280.5	89	2.62	2.00	0.67	0.73	16.48	4.74	200	4.15
1300	X		3.77	0.01	0.626	0.015	296.6	16.1	2.72	0.10	0.40	0.27	16.64	0.16	200	4.17
1305	X		3.78	0.01	0.632	0.006	319.2	22.6	2.13	0.59	2.01	1.61	16.53	0.11	200	4.17
1310	X		3.77	0.01	0.634	0.002	320.7	18.5	1.94	0.19	0.32	1.69	16.47	0.06	200	4.17
1315	X		3.77	0.00	0.632	0.002	320.0	9.3	1.89	0.05	0.11	0.21	16.56	8.09	200	4.17
1320	X		3.76	0.01	0.630	0.002	321.4	8.6	1.85	0.04	0.94	0.83	16.62	0.06	200	4.17

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: M16 MW02

PROJECT: Fort Monmouth ECP and UHOT Groundwater Sampling

WELL PERMIT #:

AOC # (AREA): Parcel 79

DATE: 5/25/16

SCREENED INTERVAL (TOC): 7-17

SAMPLING PERSONNEL NAME: J. Lopez

WELL DIAMETER (in.): 4

SAMPLING PERSONNEL NAME:

BOREHOLE DIAMETER FACTORS

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2	2.61	3.3	5.87

WELL HEAD VOC CONCENTRATION (ppm): 20

FEET OF SATURATED SCREEN (ft): 10

WELL DEPTH (TOC): 17.00

DEPTH TO WATER BEFORE PUMP INSTALLATION (ft below TOC): 4.01

FEET OF WATER IN WELL (ft): 0.99

PUMP INTAKE DEPTH (ft below TOC): 14.5

PURGING AND SAMPLING

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1330	X		3.79	NA	0.637	NA	324.7	NA	2.18	NA	0.72	NA	17.22	NA	225	4.07
1335	X		3.78	0.01	0.638	0.005	373.0	48.3	1.35	0.85	0.60	0.12	16.07	1.15	225	4.17
1340	X		3.72	0.06	0.630	0.002	417.0	44.0	0.99	0.34	0.34	0.26	15.75	0.32	225	4.17
1345	X		3.75	0.03	0.624	0.006	425.5	8.5	0.91	0.08	0.23	0.11	15.66	0.09	225	4.17
1350	X		3.76	0.02	0.616	0.008	427.1	1.6	0.87	0.04	0.63	0.40	15.86	0.20	225	4.17
1355	X		3.78	0.02	0.613	0.003	428.7	1.6	0.88	0.01	0.65	0.02	15.72	0.14	225	4.17

*Indicator readings have stabilized when 3 consecutive readings are within: +/- 0.1 for pH; +/- 3% for Specific Conductivity and Temperature; +/- 10 mv for Redox Potential; and +/- 10% for Dissolved Oxygen and Turbidity

LOW FLOW PURGE AND SAMPLING (LFPS) RECORD - GROUNDWATER

PARSONS

CLIENT: USACE

WELL #: M6MWO2

SAMPLING INFORMATION

SAMPLING DEVICE: QED Sample Pro

SAMPLE NAME (ID): HV6MWS-14.5

[illegible]

QA/QC SAMPLES:

DUPLICATE SAMPLE COLLECTED: YES or NO

DUPLICATE SAMPLE NAME (ID):

MS/MSD SAMPLE COLLECTED: YES or NO NO

MS / MSD SAMPLE NAME (ID):

PURGING AND SAMPLING COMMENTS:

- 2nd & 3rd saturated screen intervals

INVESTIGATION DERIVED WASTE (IDW):

GAC

Date: _____

Transferred to Drum:

Attachment E
Analytical Data

September 2, 2016

Ms. Carla Rodman
Parsons
301 Plainfield Rd
Suite 350
Syracuse, NY 13212

Certificate of Analysis

Project Name:	Ft. Monmouth GW Sampling	Workorder:	2165197
Purchase Order:		Workorder ID:	PQF019 Ft. Monmouth GW

Dear Ms. Rodman:

Enclosed are the analytical results for samples received by the laboratory on Friday, August 5, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Christina Grill , Ms. Maryanne Kosciwicz , Mr. Cory Mahony

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2165197001	99-PAR-79-490-TMW01	Water	8/5/2016 08:55	8/5/2016 20:25	Collected by Client
2165197002	99-PAR-79-490-TMW02	Water	8/5/2016 09:15	8/5/2016 20:25	Collected by Client
2165197003	99-PAR-79-142-TMW01	Water	8/5/2016 09:45	8/5/2016 20:25	Collected by Client
2165197004	99-PAR-79-202-TMW01	Water	8/5/2016 10:30	8/5/2016 20:25	Collected by Client
2165197005	99-PAR-79-A75-TMW02	Water	8/5/2016 11:30	8/5/2016 20:25	Collected by Client
2165197006	99-PAR-79-A75-TMW01	Water	8/5/2016 11:05	8/5/2016 20:25	Collected by Client
2165197007	99-PAR-79-A75-TMW101	Water	8/5/2016 12:00	8/5/2016 20:25	Collected by Client
2165197008	99-PAR-79-EB-08052016	Water	8/5/2016 12:50	8/5/2016 20:25	Collected by Client
2165197009	99-PAR-79-TB-08052016	Water	8/5/2016 00:00	8/5/2016 20:25	Collected by Client

ALS Environmental Laboratory Locations Across North America**Canada:** Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 2165197 PQF019|Ft. Monmouth GW

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



PROJECT SUMMARY

Workorder: 2165197 PQF019|Ft. Monmouth GW

Workorder Comments

ALS Middletown does not currently hold DOD accreditation for Pentachlorophenol by 8270 SIM or Benzidine by 8270.

Sample Comments

Lab ID: 2165197003

Sample ID: 99-PAR-79-142-
TMW01

Sample Type: SAMPLE

Due to the excessive amount of sediment in this volatile sample, the liquid was decanted into a separate vial and analyzed. This may have introduced headspace.

This sample was re-extracted for 8270/3510 after the hold time had expired because of low surrogate recoveries in the original extract. The 8270/3510 re-extract had better surrogate recoveries. However, some recoveries are still below QSM5 criteria. 8270 data from both extractions are included on this report for review.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197001**
Sample ID: **99-PAR-79-490-TMW01**

Date Collected: 8/5/2016 08:55 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	19.3		ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 16:56	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 16:56	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
2-Butanone	3.2J	J	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 16:56	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 16:56	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 16:56	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197001**
Sample ID: **99-PAR-79-490-TMW01**

Date Collected: 8/5/2016 08:55 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Hexachlorobutadiene	0.75U	U5	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 16:56	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 16:56	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 16:56	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 16:56	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:56	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 16:56	DD	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	105		%	81 - 118			SW846 8260C		8/9/16 16:56	DD	D
4-Bromofluorobenzene (S)	111		%	85 - 114			SW846 8260C		8/9/16 16:56	DD	D
Dibromofluoromethane (S)	97.8		%	80 - 119			SW846 8260C		8/9/16 16:56	DD	D
Toluene-d8 (S)	98.6		%	89 - 112			SW846 8260C		8/9/16 16:56	DD	D
LIBRARY SEARCH - VOLATILES											
No TIC's Detected	.						Lib Search VOC		8/9/16 16:56	JAH	D
SEMIVOLATILES											

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197001**
Sample ID: **99-PAR-79-490-TMW01**

Date Collected: 8/5/2016 08:55 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	0.98U	U	ug/L	2.0	0.98	0.15	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Acenaphthylene	0.98U	U	ug/L	2.0	0.98	0.19	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Anthracene	0.98U	U	ug/L	2.0	0.98	0.15	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Benzidine	7.8U	U	ug/L	7.8	7.8	3.0	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Benzidine	29.4U	U	ug/L	29.4	29.4	3.0	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Benzo(a)anthracene	0.14J	J	ug/L	2.0	0.98	0.13	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Benzo(a)pyrene	0.98U	U	ug/L	2.0	0.98	0.22	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Benzo(b)fluoranthene	0.98U	U	ug/L	2.0	0.98	0.11	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Benzo(g,h,i)perylene	0.98U	U	ug/L	2.0	0.98	0.22	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Benzo(k)fluoranthene	0.98U	U	ug/L	2.0	0.98	0.19	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Benzyl Alcohol	2.0U	U	ug/L	7.8	2.0	0.23	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
4-Bromophenyl-phenylether	0.98U	U	ug/L	7.8	0.98	0.17	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Butylbenzylphthalate	0.98U	U	ug/L	7.8	0.98	0.11	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Carbazole	0.98U	U	ug/L	7.8	0.98	0.12	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
4-Chloro-3-methylphenol	0.98U	U	ug/L	7.8	0.98	0.19	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
4-Chloroaniline	0.98U	U	ug/L	7.8	0.98	0.21	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
bis(2-Chloroethoxy)methane	0.98U	U	ug/L	7.8	0.98	0.21	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
bis(2-Chloroethyl)ether	0.98U	U	ug/L	7.8	0.98	0.17	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
bis(2-Chloroisopropyl)ether	0.98U	U	ug/L	7.8	0.98	0.27	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
2-Chloronaphthalene	0.98U	U	ug/L	7.8	0.98	0.18	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
2-Chlorophenol	2.0U	U	ug/L	7.8	2.0	0.32	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
4-Chlorophenyl-phenylether	0.98U	U	ug/L	7.8	0.98	0.14	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Chrysene	0.98U	U	ug/L	2.0	0.98	0.12	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
mp-Cresol	0.98U	U	ug/L	7.8	0.98	0.15	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
o-Cresol	0.98U	U	ug/L	7.8	0.98	0.25	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Di-n-Butylphthalate	0.98U	U	ug/L	7.8	0.98	0.14	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Di-n-Octylphthalate	0.98U	U	ug/L	7.8	0.98	0.098	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Dibenzo(a,h)anthracene	0.98U	U	ug/L	2.0	0.98	0.21	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Dibenzofuran	0.22J	J	ug/L	7.8	0.98	0.11	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
1,2-Dichlorobenzene	0.98U	U	ug/L	7.8	0.98	0.20	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
1,3-Dichlorobenzene	0.98U	U	ug/L	7.8	0.98	0.17	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
1,4-Dichlorobenzene	0.98U	U	ug/L	7.8	0.98	0.18	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
3,3-Dichlorobenzidine	2.9U	U	ug/L	15.7	2.9	0.47	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
2,4-Dichlorophenol	0.98U	U	ug/L	7.8	0.98	0.31	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Diethylphthalate	0.98U	U	ug/L	7.8	0.98	0.18	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
2,4-Dimethylphenol	4.9U	U	ug/L	7.8	4.9	0.21	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
Dimethylphthalate	0.98U	U	ug/L	7.8	0.98	0.14	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B
2,4-Dinitrophenol	7.8U	U	ug/L	15.7	7.8	1.8	SW846 8270D	8/9/16 JTH	8/11/16 01:10	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197001**
Sample ID: **99-PAR-79-490-TMW01**

Date Collected: 8/5/2016 08:55 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By		Analyzed	By	Cntr
2,4-Dinitrotoluene	0.98U	U	ug/L	7.8	0.98	0.12	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
2,6-Dinitrotoluene	0.98U	U	ug/L	7.8	0.98	0.21	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
1,2-Diphenylhydrazine	0.98U	U	ug/L	7.8	0.98	0.25	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
bis(2-Ethylhexyl)phthalate	0.98U	U	ug/L	7.8	0.98	0.22	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Fluoranthene	0.98U	U	ug/L	2.0	0.98	0.17	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Fluorene	0.98U	U	ug/L	2.0	0.98	0.20	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Hexachlorobenzene	0.98U	U	ug/L	7.8	0.98	0.23	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Hexachlorobutadiene	0.98U	U	ug/L	7.8	0.98	0.19	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Hexachlorocyclopentadiene	2.0U	U	ug/L	7.8	2.0	0.17	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Hexachloroethane	0.98U	U	ug/L	7.8	0.98	0.29	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Indeno(1,2,3-cd)pyrene	0.98U	U	ug/L	2.0	0.98	0.098	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Isophorone	0.98U	U	ug/L	7.8	0.98	0.15	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
2-Methyl-4,6-dinitrophenol	4.9U	U	ug/L	7.8	4.9	0.32	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
2-Methylnaphthalene	0.69J	J	ug/L	2.0	0.98	0.16	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Naphthalene	0.98U	U	ug/L	2.0	0.98	0.12	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
2-Nitroaniline	0.98U	U	ug/L	7.8	0.98	0.20	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
3-Nitroaniline	2.0U	U	ug/L	7.8	2.0	0.18	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
4-Nitroaniline	0.98U	U	ug/L	7.8	0.98	0.40	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Nitrobenzene	2.0U	U	ug/L	7.8	2.0	0.27	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
2-Nitrophenol	2.0U	U	ug/L	7.8	2.0	0.44	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
4-Nitrophenol	4.9U	U	ug/L	7.8	4.9	1.0	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
N-Nitrosodimethylamine	2.0U	U	ug/L	7.8	2.0	0.63	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
N-Nitroso-di-n-propylamine	0.98U	U	ug/L	7.8	0.98	0.24	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
N-Nitrosodiphenylamine	2.0U	U	ug/L	7.8	2.0	0.18	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Pentachlorophenol	7.8U	U	ug/L	15.7	7.8	1.0	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Phenanthrene	0.29J	J	ug/L	2.0	0.98	0.13	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Phenol	0.98U	U	ug/L	7.8	0.98	0.23	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Pyrene	0.98U	U	ug/L	2.0	0.98	0.16	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
1,2,4-Trichlorobenzene	0.98U	U	ug/L	7.8	0.98	0.13	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
2,4,5-Trichlorophenol	2.9U	U	ug/L	7.8	2.9	0.54	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
2,4,6-Trichlorophenol	0.98U	U	ug/L	7.8	0.98	0.56	SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	56.4		%	47 - 128			SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
2-Fluorobiphenyl (S)	52.3		%	52 - 118			SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
2-Fluorophenol (S)	35.6		%	20 - 87			SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Nitrobenzene-d5 (S)	57.9		%	27 - 139			SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Phenol-d5 (S)	25.8		%	10 - 81			SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B
Terphenyl-d14 (S)	30.5	2	%	46 - 133			SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197001**
Sample ID: **99-PAR-79-490-TMW01**

Date Collected: 8/5/2016 08:55 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2,4,6-Tribromophenol (S)	56.4		%	43 - 140			SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS B
2-Fluorobiphenyl (S)	52.3		%	44 - 119			SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS B
2-Fluorophenol (S)	35.6		%	19 - 119			SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS B
Nitrobenzene-d5 (S)	57.9		%	44 - 120			SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS B
Phenol-d5 (S)	25.8		%	13 - 49			SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS B
Terphenyl-d14 (S)	30.5	1	%	50 - 134			SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS B
Library Search - SemiVolatiles											
Tridecanoic acid	6.0	J N	ug/L				SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS B
Unknown	3.9	J	ug/L				SW846 8270D	8/9/16	JTH	8/11/16 01:10	CGS B
SEMIVOLATILE SIM											
Acenaphthene	0.089		ug/L	0.049	0.039	0.011	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Acenaphthylene	0.028J	J	ug/L	0.049	0.039	0.011	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Anthracene	0.026J	J	ug/L	0.049	0.039	0.017	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Benzo(a)anthracene	0.024J	J	ug/L	0.049	0.039	0.017	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Benzo(a)pyrene	0.023J	J	ug/L	0.049	0.039	0.020	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Benzo(b)fluoranthene	0.039U	U	ug/L	0.049	0.039	0.020	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Benzo(g,h,i)perylene	0.039U	U4	ug/L	0.049	0.039	0.037	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Benzo(k)fluoranthene	0.039U	U	ug/L	0.049	0.039	0.025	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Chrysene	0.048J	J	ug/L	0.049	0.039	0.017	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Dibenzo(a,h)anthracene	0.039U	U	ug/L	0.049	0.039	0.023	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
2,4-Dinitrotoluene	0.039U	U	ug/L	0.049	0.039	0.021	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
2,6-Dinitrotoluene	0.039U	U	ug/L	0.049	0.039	0.030	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Fluoranthene	0.049J	J	ug/L	0.049	0.039	0.018	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Fluorene	0.13		ug/L	0.049	0.039	0.015	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Indeno(1,2,3-cd)pyrene	0.049U	U	ug/L	0.049	0.049	0.040	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Naphthalene	0.12		ug/L	0.049	0.039	0.036	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Pentachlorophenol	0.98U	U	ug/L	0.98	0.98	0.18	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Phenanthrene	0.052		ug/L	0.049	0.039	0.020	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Pyrene	0.053		ug/L	0.049	0.039	0.015	8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Methylnaphthalene-d10 (S)	49.8		%	29 - 112			8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B
Fluoranthene-d10 (S)	33.4	3	%	45 - 130			8270 SIM	8/9/16	JTH	8/11/16 21:55	CGS B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197001**
Sample ID: **99-PAR-79-490-TMW01**Date Collected: 8/5/2016 08:55 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator**ALS Environmental Laboratory Locations Across North America****Canada:** Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197002**
Sample ID: **99-PAR-79-490-TMW02**

Date Collected: 8/5/2016 09:15 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	4.3J	J	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 14:22	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 14:22	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 14:22	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 14:22	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
sec-Butylbenzene	0.51J	J	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 14:22	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197002**
Sample ID: **99-PAR-79-490-TMW02**

Date Collected: 8/5/2016 09:15 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Hexachlorobutadiene	0.75U	U1	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 14:22	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 14:22	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 14:22	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Naphthalene	0.51J	J	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 14:22	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:22	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 14:22	DD	D
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	108		%	81 - 118			SW846 8260C		8/9/16 14:22	DD	D
4-Bromofluorobenzene (S)	113		%	85 - 114			SW846 8260C		8/9/16 14:22	DD	D
Dibromofluoromethane (S)	97.8		%	80 - 119			SW846 8260C		8/9/16 14:22	DD	D
Toluene-d8 (S)	101		%	89 - 112			SW846 8260C		8/9/16 14:22	DD	D
Library Search - Volatiles											
Naphthalene, 1,2,3,4-tetrahydr	3.0	J N	ug/L				SW846 8260C		8/9/16 14:22	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197002**
Sample ID: **99-PAR-79-490-TMW02**

Date Collected: 8/5/2016 09:15 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
1H-Indene, 2,3-dihydro-1,6-dim	3.0	J N	ug/L				SW846 8260C		8/9/16 14:22	DD	D
Naphthalene, 1,2,3,4-tetrahydr	2.1	J N	ug/L				SW846 8260C		8/9/16 14:22	DD	D
SEMIVOLATILES											
Acenaphthene	0.68J	J	ug/L	1.9	0.96	0.14	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Acenaphthylene	0.60J	J	ug/L	1.9	0.96	0.18	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Anthracene	0.61J	J	ug/L	1.9	0.96	0.14	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Benzidine	28.7U	U	ug/L	28.7	28.7	3.0	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Benzidine	7.7U	U	ug/L	7.7	7.7	3.0	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Benzo(a)anthracene	0.26J	J	ug/L	1.9	0.96	0.12	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Benzo(a)pyrene	0.96U	U	ug/L	1.9	0.96	0.21	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Benzo(b)fluoranthene	0.21J	J	ug/L	1.9	0.96	0.11	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Benzo(g,h,i)perylene	0.96U	U	ug/L	1.9	0.96	0.21	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Benzo(k)fluoranthene	0.96U	U	ug/L	1.9	0.96	0.18	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Benzyl Alcohol	1.9U	U	ug/L	7.7	1.9	0.22	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
4-Bromophenyl-phenylether	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Butylbenzylphthalate	0.16J	J	ug/L	7.7	0.96	0.11	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Carbazole	0.96U	U	ug/L	7.7	0.96	0.11	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
4-Chloro-3-methylphenol	0.96U	U	ug/L	7.7	0.96	0.18	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
4-Chloroaniline	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
bis(2-Chloroethoxy)methane	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
bis(2-Chloroethyl)ether	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
bis(2-Chloroisopropyl)ether	0.96U	U	ug/L	7.7	0.96	0.27	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2-Chloronaphthalene	0.96U	U	ug/L	7.7	0.96	0.17	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2-Chlorophenol	1.9U	U	ug/L	7.7	1.9	0.32	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
4-Chlorophenyl-phenylether	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Chrysene	0.25J	J	ug/L	1.9	0.96	0.11	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
mp-Cresol	0.96U	U	ug/L	7.7	0.96	0.14	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
o-Cresol	0.96U	U	ug/L	7.7	0.96	0.24	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Di-n-Butylphthalate	0.33J	J	ug/L	7.7	0.96	0.13	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Di-n-Octylphthalate	0.96U	U	ug/L	7.7	0.96	0.096	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Dibenzo(a,h)anthracene	0.96U	U	ug/L	1.9	0.96	0.20	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Dibenzofuran	0.73J	J	ug/L	7.7	0.96	0.11	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
1,2-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.19	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
1,3-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
1,4-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.17	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
3,3-Dichlorobenzidine	2.9U	U	ug/L	15.3	2.9	0.46	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2,4-Dichlorophenol	0.96U	U	ug/L	7.7	0.96	0.31	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197002**
Sample ID: **99-PAR-79-490-TMW02**

Date Collected: 8/5/2016 09:15 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Diethylphthalate	0.96U	U	ug/L	7.7	0.96	0.17	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2,4-Dimethylphenol	4.8U	U	ug/L	7.7	4.8	0.20	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Dimethylphthalate	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2,4-Dinitrophenol	7.7U	U	ug/L	15.3	7.7	1.7	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2,4-Dinitrotoluene	0.96U	U	ug/L	7.7	0.96	0.11	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2,6-Dinitrotoluene	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
1,2-Diphenylhydrazine	0.96U	U	ug/L	7.7	0.96	0.25	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
bis(2-Ethylhexyl)phthalate	0.35J	J	ug/L	7.7	0.96	0.21	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Fluoranthene	0.96U	U	ug/L	1.9	0.96	0.16	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Fluorene	0.96U	U	ug/L	1.9	0.96	0.19	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Hexachlorobenzene	0.96U	U	ug/L	7.7	0.96	0.22	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Hexachlorobutadiene	0.96U	U	ug/L	7.7	0.96	0.18	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Hexachlorocyclopentadiene	1.9U	U	ug/L	7.7	1.9	0.16	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Hexachloroethane	0.96U	U	ug/L	7.7	0.96	0.29	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Indeno(1,2,3-cd)pyrene	0.13J	J	ug/L	1.9	0.96	0.096	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Isophorone	0.96U	U	ug/L	7.7	0.96	0.14	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2-Methyl-4,6-dinitrophenol	4.8U	U	ug/L	7.7	4.8	0.32	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2-Methylnaphthalene	0.96U	U	ug/L	1.9	0.96	0.15	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Naphthalene	0.96U	U	ug/L	1.9	0.96	0.11	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2-Nitroaniline	0.96U	U	ug/L	7.7	0.96	0.19	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
3-Nitroaniline	1.9U	U	ug/L	7.7	1.9	0.17	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
4-Nitroaniline	0.96U	U	ug/L	7.7	0.96	0.39	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Nitrobenzene	1.9U	U	ug/L	7.7	1.9	0.27	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2-Nitrophenol	1.9U	U	ug/L	7.7	1.9	0.43	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
4-Nitrophenol	4.8U	U	ug/L	7.7	4.8	1.0	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
N-Nitrosodimethylamine	1.9U	U	ug/L	7.7	1.9	0.61	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
N-Nitroso-di-n-propylamine	0.96U	U	ug/L	7.7	0.96	0.23	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
N-Nitrosodiphenylamine	1.9U	U	ug/L	7.7	1.9	0.17	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Pentachlorophenol	7.7U	U	ug/L	15.3	7.7	1.0	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Phenanthrene	1.1J	J	ug/L	1.9	0.96	0.12	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Phenol	0.96U	U	ug/L	7.7	0.96	0.22	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Pyrene	0.65J	J	ug/L	1.9	0.96	0.15	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
1,2,4-Trichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.12	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2,4,5-Trichlorophenol	2.9U	U	ug/L	7.7	2.9	0.53	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2,4,6-Trichlorophenol	0.96U	U	ug/L	7.7	0.96	0.55	SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	83.1		%	47 - 128			SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2-Fluorobiphenyl (S)	72.1		%	52 - 118			SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197002**

Date Collected: 8/5/2016 09:15

Matrix: Water

Sample ID: **99-PAR-79-490-TMW02**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2-Fluorophenol (S)	47		%	20 - 87			SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Nitrobenzene-d5 (S)	85.5		%	27 - 139			SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Phenol-d5 (S)	30.7		%	10 - 81			SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Terphenyl-d14 (S)	49.7		%	46 - 133			SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	83.1		%	43 - 140			SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2-Fluorobiphenyl (S)	72.1		%	44 - 119			SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
2-Fluorophenol (S)	47		%	19 - 119			SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Nitrobenzene-d5 (S)	85.5		%	44 - 120			SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Phenol-d5 (S)	30.7		%	13 - 49			SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Terphenyl-d14 (S)	49.7	2	%	50 - 134			SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Library Search - SemiVolatiles											
Unknown	13.4	J	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Unknown	6.3	J	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Dodecane, 6-methyl-	15.4	J N	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Unknown	9.2	J	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Unknown	7.8	J	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Unknown	18.3	J	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Unknown	9.4	J	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Unknown	12.3	J	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Unknown	9.3	J	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Unknown	13.1	J	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Unknown	8.2	J	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Unknown	8.7	J	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Hexadecane	13.9	J N	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Octadecanoic acid	23.7	J N	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Unknown	11.0	J	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Octacosane	7.4	J N	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
Unknown	8.0	J	ug/L				SW846 8270D	8/10/16 JTH	8/18/16 13:40	CGS	B
SEMIVOLATILE SIM											
Acenaphthene	0.57		ug/L	0.048	0.038	0.011	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Acenaphthylene	0.27		ug/L	0.048	0.038	0.011	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Anthracene	0.11		ug/L	0.048	0.038	0.016	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Benzo(a)anthracene	0.069		ug/L	0.048	0.038	0.016	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Benzo(a)pyrene	0.061		ug/L	0.048	0.038	0.019	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Benzo(b)fluoranthene	0.094		ug/L	0.048	0.038	0.019	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Benzo(g,h,i)perylene	0.045J	J	ug/L	0.048	0.038	0.036	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197002**

Date Collected: 8/5/2016 09:15

Matrix: Water

Sample ID: **99-PAR-79-490-TMW02**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Benzo(k)fluoranthene	0.031J	J	ug/L	0.048	0.038	0.024	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Chrysene	0.12		ug/L	0.048	0.038	0.016	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Dibenzo(a,h)anthracene	0.038U	U	ug/L	0.048	0.038	0.022	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
2,4-Dinitrotoluene	0.038U	U	ug/L	0.048	0.038	0.020	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
2,6-Dinitrotoluene	0.038U	U	ug/L	0.048	0.038	0.030	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Fluoranthene	0.26		ug/L	0.048	0.038	0.017	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Fluorene	2.2		ug/L	0.048	0.038	0.014	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Indeno(1,2,3-cd)pyrene	0.046J	J	ug/L	0.048	0.048	0.039	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Naphthalene	0.038U	U	ug/L	0.048	0.038	0.035	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Pentachlorophenol	0.96U	U	ug/L	0.96	0.96	0.17	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Phenanthrene	0.63		ug/L	0.048	0.038	0.019	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Pyrene	0.45		ug/L	0.048	0.038	0.014	8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	65.9		%	29 - 112			8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B
Fluoranthene-d10 (S)	66.9		%	45 - 130			8270 SIM	8/10/16 JTH	8/12/16 13:19	CGS	B



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197003**
Sample ID: **99-PAR-79-142-TMW01**

Date Collected: 8/5/2016 09:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	7.2		ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 15:50	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 15:50	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 15:50	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 15:50	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 15:50	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197003**
Sample ID: **99-PAR-79-142-TMW01**

Date Collected: 8/5/2016 09:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Hexachlorobutadiene	0.75U	U2	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 15:50	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 15:50	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 15:50	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 15:50	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:50	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 15:50	DD	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	105		%	81 - 118			SW846 8260C		8/9/16 15:50	DD	D
4-Bromofluorobenzene (S)	112		%	85 - 114			SW846 8260C		8/9/16 15:50	DD	D
Dibromofluoromethane (S)	98.4		%	80 - 119			SW846 8260C		8/9/16 15:50	DD	D
Toluene-d8 (S)	99.7		%	89 - 112			SW846 8260C		8/9/16 15:50	DD	D
Library Search - Volatiles											
Silanol, trimethyl-	1.5	J N	ug/L				SW846 8260C		8/9/16 15:50	DD	D
SEMIVOLATILES											

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197003**
Sample ID: **99-PAR-79-142-TMW01**

Date Collected: 8/5/2016 09:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	0.21J	J	ug/L	1.9	0.95	0.14	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Acenaphthene	5.0U	U	ug/L	10.0	5.0	0.75	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Acenaphthylene	3.8		ug/L	1.9	0.95	0.18	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Acenaphthylene	8.1J	J	ug/L	10.0	5.0	0.95	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Anthracene	2.0		ug/L	1.9	0.95	0.14	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Anthracene	4.5J	J	ug/L	10.0	5.0	0.75	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Benidine	28.6U	U	ug/L	28.6	28.6	3.0	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Benidine	150U	U	ug/L	150	150	15.5	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Benzo(a)anthracene	2.6		ug/L	1.9	0.95	0.12	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Benzo(a)anthracene	8.1J	J	ug/L	10.0	5.0	0.65	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Benzo(a)pyrene	5.7		ug/L	1.9	0.95	0.21	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Benzo(a)pyrene	14.5		ug/L	10.0	5.0	1.1	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Benzo(b)fluoranthene	6.8		ug/L	1.9	0.95	0.10	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Benzo(b)fluoranthene	18.6		ug/L	10.0	5.0	0.55	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Benzo(g,h,i)perylene	5.5		ug/L	1.9	0.95	0.21	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Benzo(g,h,i)perylene	12.6		ug/L	10.0	5.0	1.1	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Benzo(k)fluoranthene	2.0		ug/L	1.9	0.95	0.18	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Benzo(k)fluoranthene	7.5J	J	ug/L	10.0	5.0	0.95	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Benzyl Alcohol	1.9U	U	ug/L	7.6	1.9	0.22	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Benzyl Alcohol	10.0U	U	ug/L	40.0	10.0	1.2	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
4-Bromophenyl-phenylether	0.95U	U	ug/L	7.6	0.95	0.16	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
4-Bromophenyl-phenylether	5.0U	U	ug/L	40.0	5.0	0.85	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Butylbenzylphthalate	0.95U	U	ug/L	7.6	0.95	0.10	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Butylbenzylphthalate	0.65J	J	ug/L	40.0	5.0	0.55	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Carbazole	0.54J	J	ug/L	7.6	0.95	0.11	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Carbazole	1.5J	J	ug/L	40.0	5.0	0.60	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
4-Chloro-3-methylphenol	0.95U	U	ug/L	7.6	0.95	0.18	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
4-Chloro-3-methylphenol	5.0U	U	ug/L	40.0	5.0	0.95	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
4-Chloroaniline	0.95U	U	ug/L	7.6	0.95	0.20	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
4-Chloroaniline	5.0U	U	ug/L	40.0	5.0	1.1	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
bis(2-Chloroethoxy)methane	0.95U	U	ug/L	7.6	0.95	0.20	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
bis(2-Chloroethoxy)methane	5.0U	U	ug/L	40.0	5.0	1.1	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
bis(2-Chloroethyl)ether	0.95U	U	ug/L	7.6	0.95	0.16	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
bis(2-Chloroethyl)ether	5.0U	U	ug/L	40.0	5.0	0.85	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
bis(2-Chloroisopropyl)ether	0.95U	U	ug/L	7.6	0.95	0.27	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
bis(2-Chloroisopropyl)ether	5.0U	U	ug/L	40.0	5.0	1.4	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
2-Chloronaphthalene	0.95U	U	ug/L	7.6	0.95	0.17	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2-Chloronaphthalene	5.0U	U	ug/L	40.0	5.0	0.90	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197003**
Sample ID: **99-PAR-79-142-TMW01**

Date Collected: 8/5/2016 09:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2-Chlorophenol	1.9U	U	ug/L	7.6	1.9	0.31	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2-Chlorophenol	10.0U	U	ug/L	40.0	10.0	1.7	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
4-Chlorophenyl-phenylether	0.95U	U	ug/L	7.6	0.95	0.13	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
4-Chlorophenyl-phenylether	5.0U	U	ug/L	40.0	5.0	0.70	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Chrysene	3.7		ug/L	1.9	0.95	0.11	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Chrysene	12.7		ug/L	10.0	5.0	0.60	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
mp-Cresol	0.95U	U	ug/L	7.6	0.95	0.14	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
mp-Cresol	5.0U	U	ug/L	40.0	5.0	0.75	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
o-Cresol	0.95U	U	ug/L	7.6	0.95	0.24	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
o-Cresol	5.0U	U	ug/L	40.0	5.0	1.3	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Di-n-Butylphthalate	0.95U	U	ug/L	7.6	0.95	0.13	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Di-n-Butylphthalate	0.71J	J	ug/L	40.0	5.0	0.70	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Di-n-Octylphthalate	0.95U	U	ug/L	7.6	0.95	0.095	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Di-n-Octylphthalate	5.0U	U	ug/L	40.0	5.0	0.50	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Dibenzo(a,h)anthracene	1.1J	J	ug/L	1.9	0.95	0.20	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Dibenzo(a,h)anthracene	2.9J	J	ug/L	10.0	5.0	1.1	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Dibenzofuran	0.29J	J	ug/L	7.6	0.95	0.10	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Dibenzofuran	0.75J	J	ug/L	40.0	5.0	0.55	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
1,2-Dichlorobenzene	0.95U	U	ug/L	7.6	0.95	0.19	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
1,2-Dichlorobenzene	5.0U	U	ug/L	40.0	5.0	1.0	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
1,3-Dichlorobenzene	0.95U	U	ug/L	7.6	0.95	0.16	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
1,3-Dichlorobenzene	5.0U	U	ug/L	40.0	5.0	0.85	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
1,4-Dichlorobenzene	0.95U	U	ug/L	7.6	0.95	0.17	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
1,4-Dichlorobenzene	5.0U	U	ug/L	40.0	5.0	0.90	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
3,3-Dichlorobenzidine	2.9U	U	ug/L	15.2	2.9	0.46	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
3,3-Dichlorobenzidine	15.0U	U	ug/L	80.0	15.0	2.4	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
2,4-Dichlorophenol	0.95U	U	ug/L	7.6	0.95	0.30	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2,4-Dichlorophenol	5.0U	U	ug/L	40.0	5.0	1.6	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Diethylphthalate	0.95U	U	ug/L	7.6	0.95	0.17	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Diethylphthalate	5.0U	U	ug/L	40.0	5.0	0.90	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
2,4-Dimethylphenol	4.8U	U	ug/L	7.6	4.8	0.20	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2,4-Dimethylphenol	25.0U	U	ug/L	40.0	25.0	1.1	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Dimethylphthalate	0.95U	U	ug/L	7.6	0.95	0.13	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Dimethylphthalate	5.0U	U	ug/L	40.0	5.0	0.70	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
2,4-Dinitrophenol	7.6U	U	ug/L	15.2	7.6	1.7	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2,4-Dinitrophenol	40.0U	U	ug/L	80.0	40.0	9.1	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
2,4-Dinitrotoluene	0.95U	U	ug/L	7.6	0.95	0.11	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2,4-Dinitrotoluene	5.0U	U	ug/L	40.0	5.0	0.60	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197003**
Sample ID: **99-PAR-79-142-TMW01**

Date Collected: 8/5/2016 09:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2,6-Dinitrotoluene	0.95U	U	ug/L	7.6	0.95	0.20	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2,6-Dinitrotoluene	5.0U	U	ug/L	40.0	5.0	1.1	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
1,2-Diphenylhydrazine	0.95U	U	ug/L	7.6	0.95	0.25	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
1,2-Diphenylhydrazine	5.0U	U	ug/L	40.0	5.0	1.3	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
bis(2-Ethylhexyl)phthalate	0.95U	U	ug/L	7.6	0.95	0.21	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
bis(2-Ethylhexyl)phthalate	5.0U	U	ug/L	40.0	5.0	1.1	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Fluoranthene	3.7		ug/L	1.9	0.95	0.16	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Fluoranthene	17.7		ug/L	10.0	5.0	0.85	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Fluorene	0.56J	J	ug/L	1.9	0.95	0.19	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Fluorene	5.0U	U	ug/L	10.0	5.0	1.0	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Hexachlorobenzene	0.95U	U	ug/L	7.6	0.95	0.22	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Hexachlorobenzene	5.0U	U	ug/L	40.0	5.0	1.2	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Hexachlorobutadiene	0.95U	U	ug/L	7.6	0.95	0.18	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Hexachlorobutadiene	5.0U	U	ug/L	40.0	5.0	0.95	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Hexachlorocyclopentadiene	1.9U	U	ug/L	7.6	1.9	0.16	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Hexachlorocyclopentadiene	10.0U	U	ug/L	40.0	10.0	0.85	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Hexachloroethane	0.95U	U	ug/L	7.6	0.95	0.29	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Hexachloroethane	5.0U	U	ug/L	40.0	5.0	1.5	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Indeno(1,2,3-cd)pyrene	4.5		ug/L	1.9	0.95	0.095	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Indeno(1,2,3-cd)pyrene	11.9		ug/L	10.0	5.0	0.50	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Isophorone	0.95U	U	ug/L	7.6	0.95	0.14	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Isophorone	5.0U	U	ug/L	40.0	5.0	0.75	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
2-Methyl-4,6-dinitrophenol	4.8U	U	ug/L	7.6	4.8	0.31	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2-Methyl-4,6-dinitrophenol	25.0U	U	ug/L	40.0	25.0	1.7	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
2-Methylnaphthalene	1.0J	J	ug/L	1.9	0.95	0.15	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2-Methylnaphthalene	2.9J	J	ug/L	10.0	5.0	0.80	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Naphthalene	1.2J	J	ug/L	1.9	0.95	0.11	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Naphthalene	3.3J	J	ug/L	10.0	5.0	0.60	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
2-Nitroaniline	0.95U	U	ug/L	7.6	0.95	0.19	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2-Nitroaniline	5.0U	U	ug/L	40.0	5.0	1.0	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
3-Nitroaniline	1.9U	U	ug/L	7.6	1.9	0.17	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
3-Nitroaniline	10.0U	U	ug/L	40.0	10.0	0.90	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
4-Nitroaniline	0.95U	U	ug/L	7.6	0.95	0.39	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
4-Nitroaniline	5.0U	U	ug/L	40.0	5.0	2.1	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Nitrobenzene	1.9U	U	ug/L	7.6	1.9	0.27	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Nitrobenzene	10.0U	U	ug/L	40.0	10.0	1.4	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
2-Nitrophenol	1.9U	U	ug/L	7.6	1.9	0.43	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2-Nitrophenol	10.0U	U	ug/L	40.0	10.0	2.3	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197003**
Sample ID: **99-PAR-79-142-TMW01**

Date Collected: 8/5/2016 09:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
4-Nitrophenol	4.8U	U	ug/L	7.6	4.8	1.0	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
4-Nitrophenol	25.0U	U	ug/L	40.0	25.0	5.3	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
N-Nitrosodimethylamine	1.9U	U	ug/L	7.6	1.9	0.61	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
N-Nitrosodimethylamine	10.0U	U	ug/L	40.0	10.0	3.2	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
N-Nitroso-di-n-propylamine	0.95U	U	ug/L	7.6	0.95	0.23	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
N-Nitroso-di-n-propylamine	5.0U	U	ug/L	40.0	5.0	1.2	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
N-Nitrosodiphenylamine	1.9U	U	ug/L	7.6	1.9	0.17	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
N-Nitrosodiphenylamine	10.0U	U	ug/L	40.0	10.0	0.90	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Pentachlorophenol	7.6U	U	ug/L	15.2	7.6	1.0	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Pentachlorophenol	40.0U	U	ug/L	80.0	40.0	5.4	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Phenanthrene	2.1		ug/L	1.9	0.95	0.12	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Phenanthrene	8.7J	J	ug/L	10.0	5.0	0.65	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Phenol	0.95U	U	ug/L	7.6	0.95	0.22	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Phenol	5.0U	U	ug/L	40.0	5.0	1.2	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Pyrene	5.6		ug/L	1.9	0.95	0.15	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Pyrene	18.4		ug/L	10.0	5.0	0.80	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
1,2,4-Trichlorobenzene	0.95U	U	ug/L	7.6	0.95	0.12	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
1,2,4-Trichlorobenzene	5.0U	U	ug/L	40.0	5.0	0.65	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
2,4,5-Trichlorophenol	2.9U	U	ug/L	7.6	2.9	0.52	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2,4,5-Trichlorophenol	15.0U	U	ug/L	40.0	15.0	2.8	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
2,4,6-Trichlorophenol	0.95U	U	ug/L	7.6	0.95	0.54	SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2,4,6-Trichlorophenol	5.0U	U	ug/L	40.0	5.0	2.9	SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	74		%	43 - 140			SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
2,4,6-Tribromophenol (S)	13.4	11	%	43 - 140			SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2-Fluorobiphenyl (S)	51.5		%	44 - 119			SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
2-Fluorobiphenyl (S)	28.4	10	%	44 - 119			SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2-Fluorophenol (S)	7.97	8	%	19 - 119			SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
2-Fluorophenol (S)	39.6		%	19 - 119			SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Nitrobenzene-d5 (S)	47.9		%	44 - 120			SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Nitrobenzene-d5 (S)	65.5		%	44 - 120			SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Phenol-d5 (S)	26.6		%	13 - 49			SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Phenol-d5 (S)	8.4	9	%	13 - 49			SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Terphenyl-d14 (S)	24.3	18	%	50 - 134			SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Terphenyl-d14 (S)	14.7	12	%	50 - 134			SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Library Search - SemiVolatiles											
Dodecane, 2,6,10-trimethyl-	4.3	J N	ug/L				SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197003**
Sample ID: **99-PAR-79-142-TMW01**

Date Collected: 8/5/2016 09:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Unknown	26.5	J	ug/L				SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Eicosane	4.8	J N	ug/L				SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Heptadecane	24.1	J N	ug/L				SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Benzo[e]pyrene	5.3	J N	ug/L				SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Diethyltoluamide	34.4	J N	ug/L				SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Unknown	4.2	J	ug/L				SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Octadecanoic acid	21.9	J N	ug/L				SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Dibenzo[def,mno]chrysene	7.0	J N	ug/L				SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Unknown	40.4	J	ug/L				SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Unknown	35.6	J	ug/L				SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Unknown	22.9	J	ug/L				SW846 8270D	8/23/16 SJG	8/23/16 22:15	DHF	
Unknown	30.7	J	ug/L				SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
Unknown	13.5	J	ug/L				SW846 8270D	8/10/16 JTH	8/16/16 13:34	CGS	B
SEMIVOLATILE SIM											
Acenaphthene	0.14		ug/L	0.048	0.038	0.010	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Acenaphthene	0.27		ug/L	0.25	0.20	0.055	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Acenaphthylene	2.5		ug/L	0.048	0.038	0.010	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Acenaphthylene	5.4		ug/L	0.25	0.20	0.055	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Anthracene	1.4		ug/L	0.048	0.038	0.016	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Anthracene	3.2		ug/L	0.25	0.20	0.085	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Benzo(a)anthracene	2.5		ug/L	0.048	0.038	0.016	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Benzo(a)anthracene	8.5		ug/L	0.25	0.20	0.085	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Benzo(a)pyrene	5.5	E	ug/L	0.048	0.038	0.019	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Benzo(a)pyrene	14.9		ug/L	0.25	0.20	0.10	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Benzo(b)fluoranthene	6.6	E	ug/L	0.048	0.038	0.019	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Benzo(b)fluoranthene	19.4	E	ug/L	0.25	0.20	0.10	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Benzo(g,h,i)perylene	4.4	E	ug/L	0.048	0.038	0.036	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Benzo(g,h,i)perylene	10.9		ug/L	0.25	0.20	0.19	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Benzo(k)fluoranthene	2.2		ug/L	0.048	0.038	0.024	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Benzo(k)fluoranthene	6.7		ug/L	0.25	0.20	0.13	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Chrysene	3.6	E	ug/L	0.048	0.038	0.016	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Chrysene	13.5		ug/L	0.25	0.20	0.085	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Dibenzo(a,h)anthracene	1.1		ug/L	0.048	0.038	0.022	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Dibenzo(a,h)anthracene	2.9		ug/L	0.25	0.20	0.12	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
2,4-Dinitrotoluene	0.038U	U	ug/L	0.048	0.038	0.020	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
2,4-Dinitrotoluene	0.20U	U	ug/L	0.25	0.20	0.11	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
2,6-Dinitrotoluene	0.038U	U	ug/L	0.048	0.038	0.030	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
2,6-Dinitrotoluene	0.20U	U	ug/L	0.25	0.20	0.16	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197003**

Date Collected: 8/5/2016 09:45

Matrix: Water

Sample ID: **99-PAR-79-142-TMW01**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Fluoranthene	3.1	E	ug/L	0.048	0.038	0.017	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Fluoranthene	15.1	E	ug/L	0.25	0.20	0.090	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Fluorene	0.038U	U	ug/L	0.048	0.038	0.014	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Fluorene	0.77		ug/L	0.25	0.20	0.075	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Indeno(1,2,3-cd)pyrene	4.1	E	ug/L	0.048	0.048	0.039	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Indeno(1,2,3-cd)pyrene	11.1		ug/L	0.25	0.25	0.21	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Naphthalene	1.1		ug/L	0.048	0.038	0.035	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Naphthalene	2.9		ug/L	0.25	0.20	0.19	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Pentachlorophenol	0.95U	U	ug/L	0.95	0.95	0.17	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Pentachlorophenol	5.0U	U	ug/L	5.0	5.0	0.90	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Phenanthrene	1.8		ug/L	0.048	0.038	0.019	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Phenanthrene	8.0		ug/L	0.25	0.20	0.10	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Pyrene	4.3	E	ug/L	0.048	0.038	0.014	8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
Pyrene	16.3	E	ug/L	0.25	0.20	0.075	8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	30		%	29 - 112			8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B
2-Methylnaphthalene-d10 (S)	50.5		%	29 - 112			8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Fluoranthene-d10 (S)	34.8	17	%	45 - 130			8270 SIM	8/23/16 SJG	8/24/16 13:59	CGS	
Fluoranthene-d10 (S)	21.1	13	%	45 - 130			8270 SIM	8/10/16 JTH	8/12/16 13:45	CGS	B



Ms. Debra J. Musser

Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197004**
Sample ID: **99-PAR-79-202-TMW01**

Date Collected: 8/5/2016 10:30 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 14:44	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 14:44	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 14:44	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 14:44	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 14:44	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197004**
Sample ID: **99-PAR-79-202-TMW01**

Date Collected: 8/5/2016 10:30 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Hexachlorobutadiene	0.75U	U1	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 14:44	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 14:44	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Methyl t-Butyl Ether	0.48J	J	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 14:44	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 14:44	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:44	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 14:44	DD	D
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	103		%	81 - 118			SW846 8260C		8/9/16 14:44	DD	D
4-Bromofluorobenzene (S)	112		%	85 - 114			SW846 8260C		8/9/16 14:44	DD	D
Dibromofluoromethane (S)	96.7		%	80 - 119			SW846 8260C		8/9/16 14:44	DD	D
Toluene-d8 (S)	98.5		%	89 - 112			SW846 8260C		8/9/16 14:44	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected . Lib Search VOC 8/9/16 14:44 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197004**
Sample ID: **99-PAR-79-202-TMW01**

Date Collected: 8/5/2016 10:30 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	0.96U	U	ug/L	1.9	0.96	0.14	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Acenaphthylene	0.20J	J	ug/L	1.9	0.96	0.18	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Anthracene	0.96U	U	ug/L	1.9	0.96	0.14	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Benzidine	7.7U	U	ug/L	7.7	7.7	3.0	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Benzidine	28.8U	U	ug/L	28.8	28.8	3.0	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Benzo(a)anthracene	0.19J	J	ug/L	1.9	0.96	0.13	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Benzo(a)pyrene	0.96U	U	ug/L	1.9	0.96	0.21	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Benzo(b)fluoranthene	0.13J	J	ug/L	1.9	0.96	0.11	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Benzo(g,h,i)perylene	0.96U	U	ug/L	1.9	0.96	0.21	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Benzo(k)fluoranthene	0.96U	U	ug/L	1.9	0.96	0.18	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Benzyl Alcohol	1.9U	U	ug/L	7.7	1.9	0.22	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
4-Bromophenyl-phenylether	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Butylbenzylphthalate	0.96U	U	ug/L	7.7	0.96	0.11	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Carbazole	0.96U	U	ug/L	7.7	0.96	0.12	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
4-Chloro-3-methylphenol	0.96U	U	ug/L	7.7	0.96	0.18	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
4-Chloroaniline	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
bis(2-Chloroethoxy)methane	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
bis(2-Chloroethyl)ether	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
bis(2-Chloroisopropyl)ether	0.96U	U	ug/L	7.7	0.96	0.27	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2-Chloronaphthalene	0.96U	U	ug/L	7.7	0.96	0.17	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2-Chlorophenol	1.9U	U	ug/L	7.7	1.9	0.32	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
4-Chlorophenyl-phenylether	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Chrysene	0.96U	U	ug/L	1.9	0.96	0.12	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
mp-Cresol	0.96U	U	ug/L	7.7	0.96	0.14	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
o-Cresol	0.96U	U	ug/L	7.7	0.96	0.24	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Di-n-Butylphthalate	0.28J	J	ug/L	7.7	0.96	0.13	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Di-n-Octylphthalate	0.96U	U	ug/L	7.7	0.96	0.096	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Dibenzo(a,h)anthracene	0.96U	U	ug/L	1.9	0.96	0.20	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Dibenzofuran	0.96U	U	ug/L	7.7	0.96	0.11	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
1,2-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.19	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
1,3-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
1,4-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.17	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
3,3-Dichlorobenzidine	2.9U	U	ug/L	15.4	2.9	0.46	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2,4-Dichlorophenol	0.96U	U	ug/L	7.7	0.96	0.31	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Diethylphthalate	0.28J	J	ug/L	7.7	0.96	0.17	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2,4-Dimethylphenol	4.8U	U	ug/L	7.7	4.8	0.20	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Dimethylphthalate	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2,4-Dinitrophenol	7.7U	U	ug/L	15.4	7.7	1.7	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197004**
Sample ID: **99-PAR-79-202-TMW01**

Date Collected: 8/5/2016 10:30 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2,4-Dinitrotoluene	0.96U	U	ug/L	7.7	0.96	0.12	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2,6-Dinitrotoluene	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
1,2-Diphenylhydrazine	0.96U	U	ug/L	7.7	0.96	0.25	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
bis(2-Ethylhexyl)phthalate	0.33J	J	ug/L	7.7	0.96	0.21	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Fluoranthene	0.96U	U	ug/L	1.9	0.96	0.16	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Fluorene	0.96U	U	ug/L	1.9	0.96	0.19	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Hexachlorobenzene	0.96U	U	ug/L	7.7	0.96	0.22	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Hexachlorobutadiene	0.96U	U	ug/L	7.7	0.96	0.18	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Hexachlorocyclopentadiene	1.9U	U	ug/L	7.7	1.9	0.16	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Hexachloroethane	0.96U	U	ug/L	7.7	0.96	0.29	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Indeno(1,2,3-cd)pyrene	0.96U	U	ug/L	1.9	0.96	0.096	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Isophorone	0.96U	U	ug/L	7.7	0.96	0.14	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2-Methyl-4,6-dinitrophenol	4.8U	U	ug/L	7.7	4.8	0.32	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2-Methylnaphthalene	0.96U	U	ug/L	1.9	0.96	0.15	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Naphthalene	0.96U	U	ug/L	1.9	0.96	0.12	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2-Nitroaniline	0.96U	U	ug/L	7.7	0.96	0.19	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
3-Nitroaniline	1.9U	U	ug/L	7.7	1.9	0.17	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
4-Nitroaniline	0.96U	U	ug/L	7.7	0.96	0.39	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Nitrobenzene	1.9U	U	ug/L	7.7	1.9	0.27	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2-Nitrophenol	1.9U	U	ug/L	7.7	1.9	0.43	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
4-Nitrophenol	4.8U	U	ug/L	7.7	4.8	1.0	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
N-Nitrosodimethylamine	1.9U	U	ug/L	7.7	1.9	0.62	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
N-Nitroso-di-n-propylamine	0.96U	U	ug/L	7.7	0.96	0.23	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
N-Nitrosodiphenylamine	1.9U	U	ug/L	7.7	1.9	0.17	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Pentachlorophenol	7.7U	U	ug/L	15.4	7.7	1.0	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Phenanthrene	0.96U	U	ug/L	1.9	0.96	0.13	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Phenol	0.96U	U	ug/L	7.7	0.96	0.22	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Pyrene	0.96U	U	ug/L	1.9	0.96	0.15	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
1,2,4-Trichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2,4,5-Trichlorophenol	2.9U	U	ug/L	7.7	2.9	0.53	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2,4,6-Trichlorophenol	0.96U	U	ug/L	7.7	0.96	0.55	SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	78.9		%	47 - 128			SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2-Fluorobiphenyl (S)	62.3		%	52 - 118			SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
2-Fluorophenol (S)	36.1		%	20 - 87			SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Nitrobenzene-d5 (S)	65.4		%	27 - 139			SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Phenol-d5 (S)	25.4		%	10 - 81			SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B
Terphenyl-d14 (S)	44.6	2	%	46 - 133			SW846 8270D	8/10/16 JTH	8/18/16 14:30	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197004**
Sample ID: **99-PAR-79-202-TMW01**

Date Collected: 8/5/2016 10:30 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	78.9		%	43 - 140			SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
2-Fluorobiphenyl (S)	62.3		%	44 - 119			SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
2-Fluorophenol (S)	36.1		%	19 - 119			SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Nitrobenzene-d5 (S)	65.4		%	44 - 120			SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Phenol-d5 (S)	25.4		%	13 - 49			SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Terphenyl-d14 (S)	44.6	3	%	50 - 134			SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Library Search - SemiVolatiles												
Diethyltoluamide	27.0	J N	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Octadecanoic acid	17.2	J N	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Unknown	11.7	J	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Unknown	10.8	J	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Tetradecane, 6,9-dimethyl-	4.9	J N	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Eicosane, 7-hexyl-	4.9	J N	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Unknown	8.1	J	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Eicosane	5.1	J N	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Tetracosane	5.6	J N	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Octacosane	4.8	J N	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Unknown	6.0	J	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Unknown	11.8	J	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Heptacosane	5.3	J N	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Hexadecane, 3-methyl-	4.7	J N	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Unknown	20.4	J	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Unknown	7.2	J	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
Unknown	6.3	J	ug/L				SW846 8270D	8/10/16	JTH	8/18/16 14:30	CGS	B
SEMIVOLATILE SIM												
Acenaphthene	0.038U	U	ug/L	0.048	0.038	0.011	8270 SIM	8/10/16	JTH	8/12/16 14:12	CGS	B
Acenaphthylene	0.035J	J	ug/L	0.048	0.038	0.011	8270 SIM	8/10/16	JTH	8/12/16 14:12	CGS	B
Anthracene	0.016J	J	ug/L	0.048	0.038	0.016	8270 SIM	8/10/16	JTH	8/12/16 14:12	CGS	B
Benzo(a)anthracene	0.042J	J	ug/L	0.048	0.038	0.016	8270 SIM	8/10/16	JTH	8/12/16 14:12	CGS	B
Benzo(a)pyrene	0.057		ug/L	0.048	0.038	0.019	8270 SIM	8/10/16	JTH	8/12/16 14:12	CGS	B
Benzo(b)fluoranthene	0.082		ug/L	0.048	0.038	0.019	8270 SIM	8/10/16	JTH	8/12/16 14:12	CGS	B
Benzo(g,h,i)perylene	0.044J	J	ug/L	0.048	0.038	0.037	8270 SIM	8/10/16	JTH	8/12/16 14:12	CGS	B
Benzo(k)fluoranthene	0.038U	U	ug/L	0.048	0.038	0.024	8270 SIM	8/10/16	JTH	8/12/16 14:12	CGS	B
Chrysene	0.066		ug/L	0.048	0.038	0.016	8270 SIM	8/10/16	JTH	8/12/16 14:12	CGS	B
Dibenzo(a,h)anthracene	0.038U	U	ug/L	0.048	0.038	0.022	8270 SIM	8/10/16	JTH	8/12/16 14:12	CGS	B
2,4-Dinitrotoluene	0.038U	U	ug/L	0.048	0.038	0.020	8270 SIM	8/10/16	JTH	8/12/16 14:12	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197004**
Sample ID: **99-PAR-79-202-TMW01**

Date Collected: 8/5/2016 10:30 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2,6-Dinitrotoluene	0.068		ug/L	0.048	0.038	0.030	8270 SIM	8/10/16 JTH	8/12/16 14:12	CGS	B
Fluoranthene	0.082		ug/L	0.048	0.038	0.017	8270 SIM	8/10/16 JTH	8/12/16 14:12	CGS	B
Fluorene	0.024J	J	ug/L	0.048	0.038	0.014	8270 SIM	8/10/16 JTH	8/12/16 14:12	CGS	B
Indeno(1,2,3-cd)pyrene	0.042J	J	ug/L	0.048	0.048	0.039	8270 SIM	8/10/16 JTH	8/12/16 14:12	CGS	B
Naphthalene	0.038U	U	ug/L	0.048	0.038	0.036	8270 SIM	8/10/16 JTH	8/12/16 14:12	CGS	B
Pentachlorophenol	0.96U	U	ug/L	0.96	0.96	0.17	8270 SIM	8/10/16 JTH	8/12/16 14:12	CGS	B
Phenanthrene	0.075		ug/L	0.048	0.038	0.019	8270 SIM	8/10/16 JTH	8/12/16 14:12	CGS	B
Pyrene	0.083		ug/L	0.048	0.038	0.014	8270 SIM	8/10/16 JTH	8/12/16 14:12	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	57.5		%	29 - 112			8270 SIM	8/10/16 JTH	8/12/16 14:12	CGS	B
Fluoranthene-d10 (S)	58.9		%	45 - 130			8270 SIM	8/10/16 JTH	8/12/16 14:12	CGS	B



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197005**

Date Collected: 8/5/2016 11:30

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW02**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	28.1		ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 16:34	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 16:34	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
2-Butanone	4.1J	J	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 16:34	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 16:34	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 16:34	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197005**

Date Collected: 8/5/2016 11:30

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW02**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Hexachlorobutadiene	0.75U	U1	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 16:34	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 16:34	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 16:34	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 16:34	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:34	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 16:34	DD	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104		%	81 - 118			SW846 8260C		8/9/16 16:34	DD	D
4-Bromofluorobenzene (S)	110		%	85 - 114			SW846 8260C		8/9/16 16:34	DD	D
Dibromofluoromethane (S)	95.5		%	80 - 119			SW846 8260C		8/9/16 16:34	DD	D
Toluene-d8 (S)	97.6		%	89 - 112			SW846 8260C		8/9/16 16:34	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected

Lib Search VOC

8/9/16 16:34 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197005**

Date Collected: 8/5/2016 11:30

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW02**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	1.7U	U	ug/L	3.4	1.7	0.25	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Acenaphthylene	1.7U	U	ug/L	3.4	1.7	0.32	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Anthracene	1.7U	U	ug/L	3.4	1.7	0.25	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Benzidine	50.4U	U	ug/L	50.4	50.4	5.2	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Benzidine	13.4U	U	ug/L	13.4	13.4	5.2	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Benzo(a)anthracene	0.43J	J	ug/L	3.4	1.7	0.22	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Benzo(a)pyrene	1.7U	U	ug/L	3.4	1.7	0.37	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Benzo(b)fluoranthene	0.35J	J	ug/L	3.4	1.7	0.18	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Benzo(g,h,i)perylene	1.7U	U	ug/L	3.4	1.7	0.37	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Benzo(k)fluoranthene	1.7U	U	ug/L	3.4	1.7	0.32	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Benzyl Alcohol	3.4U	U	ug/L	13.4	3.4	0.39	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
4-Bromophenyl-phenylether	1.7U	U	ug/L	13.4	1.7	0.29	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Butylbenzylphthalate	1.7U	U	ug/L	13.4	1.7	0.18	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Carbazole	1.7U	U	ug/L	13.4	1.7	0.20	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
4-Chloro-3-methylphenol	1.7U	U	ug/L	13.4	1.7	0.32	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
4-Chloroaniline	1.7U	U	ug/L	13.4	1.7	0.35	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
bis(2-Chloroethoxy)methane	1.7U	U	ug/L	13.4	1.7	0.35	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
bis(2-Chloroethyl)ether	1.7U	U	ug/L	13.4	1.7	0.29	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
bis(2-Chloroisopropyl)ether	1.7U	U	ug/L	13.4	1.7	0.47	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2-Chloronaphthalene	1.7U	U	ug/L	13.4	1.7	0.30	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2-Chlorophenol	3.4U	U	ug/L	13.4	3.4	0.55	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
4-Chlorophenyl-phenylether	1.7U	U	ug/L	13.4	1.7	0.24	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Chrysene	0.25J	J	ug/L	3.4	1.7	0.20	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
mp-Cresol	1.7U	U	ug/L	13.4	1.7	0.25	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
o-Cresol	1.7U	U	ug/L	13.4	1.7	0.42	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Di-n-Butylphthalate	0.38J	J	ug/L	13.4	1.7	0.24	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Di-n-Octylphthalate	1.7U	U	ug/L	13.4	1.7	0.17	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Dibenzo(a,h)anthracene	1.7U	U	ug/L	3.4	1.7	0.35	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Dibenzofuran	1.7U	U	ug/L	13.4	1.7	0.18	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
1,2-Dichlorobenzene	1.7U	U	ug/L	13.4	1.7	0.34	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
1,3-Dichlorobenzene	1.7U	U	ug/L	13.4	1.7	0.29	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
1,4-Dichlorobenzene	1.7U	U	ug/L	13.4	1.7	0.30	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
3,3-Dichlorobenzidine	5.0U	U	ug/L	26.9	5.0	0.81	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2,4-Dichlorophenol	1.7U	U	ug/L	13.4	1.7	0.54	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Diethylphthalate	0.48J	J	ug/L	13.4	1.7	0.30	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2,4-Dimethylphenol	8.4U	U	ug/L	13.4	8.4	0.35	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Dimethylphthalate	1.7U	U	ug/L	13.4	1.7	0.24	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2,4-Dinitrophenol	13.4U	U	ug/L	26.9	13.4	3.0	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197005**

Date Collected: 8/5/2016 11:30

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW02**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2,4-Dinitrotoluene	1.7U	U	ug/L	13.4	1.7	0.20	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2,6-Dinitrotoluene	1.7U	U	ug/L	13.4	1.7	0.35	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
1,2-Diphenylhydrazine	1.7U	U	ug/L	13.4	1.7	0.44	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
bis(2-Ethylhexyl)phthalate	1.7U	U	ug/L	13.4	1.7	0.37	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Fluoranthene	0.60J	J	ug/L	3.4	1.7	0.29	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Fluorene	1.7U	U	ug/L	3.4	1.7	0.34	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Hexachlorobenzene	1.7U	U	ug/L	13.4	1.7	0.39	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Hexachlorobutadiene	1.7U	U	ug/L	13.4	1.7	0.32	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Hexachlorocyclopentadiene	3.4U	U	ug/L	13.4	3.4	0.29	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	78.8		%	47 - 128			SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2-Fluorobiphenyl (S)	72.2		%	52 - 118			SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2-Fluorophenol (S)	64.2		%	20 - 87			SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Nitrobenzene-d5 (S)	75.7		%	27 - 139			SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Phenol-d5 (S)	48.1		%	10 - 81			SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Terphenyl-d14 (S)	75.8		%	46 - 133			SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Hexachloroethane	1.7U	U	ug/L	13.4	1.7	0.50	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Indeno(1,2,3-cd)pyrene	0.20J	J	ug/L	3.4	1.7	0.17	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Isophorone	1.7U	U	ug/L	13.4	1.7	0.25	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2-Methyl-4,6-dinitrophenol	8.4U	U	ug/L	13.4	8.4	0.55	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2-Methylnaphthalene	1.7U	U	ug/L	3.4	1.7	0.27	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Naphthalene	1.7U	U	ug/L	3.4	1.7	0.20	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2-Nitroaniline	1.7U	U	ug/L	13.4	1.7	0.34	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
3-Nitroaniline	3.4U	U	ug/L	13.4	3.4	0.30	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
4-Nitroaniline	1.7U	U	ug/L	13.4	1.7	0.69	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Nitrobenzene	3.4U	U	ug/L	13.4	3.4	0.47	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2-Nitrophenol	3.4U	U	ug/L	13.4	3.4	0.76	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
4-Nitrophenol	8.4U	U	ug/L	13.4	8.4	1.8	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
N-Nitrosodimethylamine	3.4U	U	ug/L	13.4	3.4	1.1	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
N-Nitroso-di-n-propylamine	1.7U	U	ug/L	13.4	1.7	0.40	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
N-Nitrosodiphenylamine	3.4U	U	ug/L	13.4	3.4	0.30	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Pentachlorophenol	13.4U	U	ug/L	26.9	13.4	1.8	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Phenanthrene	0.44J	J	ug/L	3.4	1.7	0.22	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Phenol	1.7U	U	ug/L	13.4	1.7	0.39	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
Pyrene	0.50J	J	ug/L	3.4	1.7	0.27	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
1,2,4-Trichlorobenzene	1.7U	U	ug/L	13.4	1.7	0.22	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2,4,5-Trichlorophenol	5.0U	U	ug/L	13.4	5.0	0.92	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B
2,4,6-Trichlorophenol	1.7U	U	ug/L	13.4	1.7	0.96	SW846 8270D	8/10/16 JTH	8/16/16 14:24	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197005**

Date Collected: 8/5/2016 11:30

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW02**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2,4,6-Tribromophenol (S)	78.8		%	43 - 140			SW846 8270D	8/10/16	JTH	8/16/16 14:24	CGS B
2-Fluorobiphenyl (S)	72.2		%	44 - 119			SW846 8270D	8/10/16	JTH	8/16/16 14:24	CGS B
2-Fluorophenol (S)	64.2		%	19 - 119			SW846 8270D	8/10/16	JTH	8/16/16 14:24	CGS B
Nitrobenzene-d5 (S)	75.7		%	44 - 120			SW846 8270D	8/10/16	JTH	8/16/16 14:24	CGS B
Phenol-d5 (S)	48.1		%	13 - 49			SW846 8270D	8/10/16	JTH	8/16/16 14:24	CGS B
Terphenyl-d14 (S)	75.8		%	50 - 134			SW846 8270D	8/10/16	JTH	8/16/16 14:24	CGS B
Library Search - SemiVolatiles											
Sulfur, mol. (S8)	10.8	J N	ug/L				SW846 8270D	8/10/16	JTH	8/16/16 14:24	CGS B
Sulfur, mol. (S8)	10.8	J N	ug/L				SW846 8270D	8/10/16	JTH	8/16/16 14:24	CGS B
Unknown	35.4	J	ug/L				SW846 8270D	8/10/16	JTH	8/16/16 14:24	CGS B
Unknown	35.4	J	ug/L				SW846 8270D	8/10/16	JTH	8/16/16 14:24	CGS B
SEMIVOLATILE SIM											
Acenaphthene	0.24		ug/L	0.084	0.067	0.018	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Acenaphthylene	0.026J	J	ug/L	0.084	0.067	0.018	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Anthracene	0.12		ug/L	0.084	0.067	0.029	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Benzo(a)anthracene	0.28		ug/L	0.084	0.067	0.029	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Benzo(a)pyrene	0.28		ug/L	0.084	0.067	0.034	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Benzo(b)fluoranthene	0.38		ug/L	0.084	0.067	0.034	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Benzo(g,h,i)perylene	0.18		ug/L	0.084	0.067	0.064	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Benzo(k)fluoranthene	0.067U	U	ug/L	0.084	0.067	0.042	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Chrysene	0.30		ug/L	0.084	0.067	0.029	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Dibenzo(a,h)anthracene	0.050J	J	ug/L	0.084	0.067	0.039	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
2,4-Dinitrotoluene	0.049J	J	ug/L	0.084	0.067	0.035	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
2,6-Dinitrotoluene	0.067U	U	ug/L	0.084	0.067	0.052	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Fluoranthene	0.54		ug/L	0.084	0.067	0.030	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Fluorene	0.16		ug/L	0.084	0.067	0.025	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Indeno(1,2,3-cd)pyrene	0.20		ug/L	0.084	0.084	0.069	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Naphthalene	0.12		ug/L	0.084	0.067	0.062	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Pentachlorophenol	1.7U	U	ug/L	1.7	1.7	0.30	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Phenanthrene	0.42		ug/L	0.084	0.067	0.034	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Pyrene	0.47		ug/L	0.084	0.067	0.025	8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Methylnaphthalene-d10 (S)	74.8		%	29 - 112			8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B
Fluoranthene-d10 (S)	82.4		%	45 - 130			8270 SIM	8/10/16	JTH	8/12/16 14:37	CGS B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197005**

Date Collected: 8/5/2016 11:30

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW02**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197006**

Date Collected: 8/5/2016 11:05

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW01**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	5.4		ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 15:06	DD	H
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 15:06	DD	H
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Bromomethane	0.75U	U85	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 15:06	DD	H
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 15:06	DD	H
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 15:06	DD	H
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197006**

Date Collected: 8/5/2016 11:05

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW01**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Hexachlorobutadiene	0.75U	U82 838 4	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 15:06	DD	H
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 15:06	DD	H
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 15:06	DD	H
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 15:06	DD	H
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:06	DD	H
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 15:06	DD	H
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	105		%	81 - 118			SW846 8260C		8/9/16 15:06	DD	H
4-Bromofluorobenzene (S)	112		%	85 - 114			SW846 8260C		8/9/16 15:06	DD	H
Dibromofluoromethane (S)	96.5		%	80 - 119			SW846 8260C		8/9/16 15:06	DD	H
Toluene-d8 (S)	97.8		%	89 - 112			SW846 8260C		8/9/16 15:06	DD	H
LIBRARY SEARCH - VOLATILES											
No TIC's Detected	.						Lib Search VOC		8/9/16 15:06	JAH	H

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197006**

Date Collected: 8/5/2016 11:05

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW01**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	0.32J	J	ug/L	2.1	1.0	0.16	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Acenaphthylene	1.0U	U	ug/L	2.1	1.0	0.20	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Anthracene	1.1J	J11	ug/L	2.1	1.0	0.16	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Benidine	31.1U	U15 16	ug/L	31.1	31.1	3.2	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Benidine	8.3U	U39 40	ug/L	8.3	8.3	3.2	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Benzo(a)anthracene	4.9	222 3	ug/L	2.1	1.0	0.13	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Benzo(a)pyrene	5.6	313 2	ug/L	2.1	1.0	0.23	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Benzo(b)fluoranthene	7.5	272 8	ug/L	2.1	1.0	0.11	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Benzo(g,h,i)perylene	4.0		ug/L	2.1	1.0	0.23	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Benzo(k)fluoranthene	2.4	293 0	ug/L	2.1	1.0	0.20	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Benzyl Alcohol	2.1U	U	ug/L	8.3	2.1	0.24	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
4-Bromophenyl-phenylether	1.0U	U8	ug/L	8.3	1.0	0.18	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Butylbenzylphthalate	1.0U	U	ug/L	8.3	1.0	0.11	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Carbazole	0.36J	J	ug/L	8.3	1.0	0.12	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
4-Chloro-3-methylphenol	1.0U	U	ug/L	8.3	1.0	0.20	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
4-Chloroaniline	1.0U	U	ug/L	8.3	1.0	0.22	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
bis(2-Chloroethoxy)methane	1.0U	U	ug/L	8.3	1.0	0.22	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
bis(2-Chloroethyl)ether	1.0U	U	ug/L	8.3	1.0	0.18	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
bis(2-Chloroisopropyl)ether	1.0U	U	ug/L	8.3	1.0	0.29	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2-Chloronaphthalene	1.0U	U	ug/L	8.3	1.0	0.19	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2-Chlorophenol	2.1U	U	ug/L	8.3	2.1	0.34	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
4-Chlorophenyl-phenylether	1.0U	U4	ug/L	8.3	1.0	0.15	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Chrysene	5.1	242 5	ug/L	2.1	1.0	0.12	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
mp-Cresol	1.0U	U	ug/L	8.3	1.0	0.16	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
o-Cresol	1.0U	U	ug/L	8.3	1.0	0.26	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Di-n-Butylphthalate	1.0U	U12	ug/L	8.3	1.0	0.15	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Di-n-Octylphthalate	1.0U	U	ug/L	8.3	1.0	0.10	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Dibenzo(a,h)anthracene	0.92J	J	ug/L	2.1	1.0	0.22	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Dibenzofuran	0.39J	J3	ug/L	8.3	1.0	0.11	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
1,2-Dichlorobenzene	1.0U	U	ug/L	8.3	1.0	0.21	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
1,3-Dichlorobenzene	1.0U	U	ug/L	8.3	1.0	0.18	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
1,4-Dichlorobenzene	1.0U	U	ug/L	8.3	1.0	0.19	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197006**

Date Collected: 8/5/2016 11:05

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW01**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
3,3-Dichlorobenzidine	3.1U	U19 202 1	ug/L	16.6	3.1	0.50	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2,4-Dichlorophenol	1.0U	U	ug/L	8.3	1.0	0.33	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Diethylphthalate	1.8J	J	ug/L	8.3	1.0	0.19	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2,4-Dimethylphenol	5.2U	U	ug/L	8.3	5.2	0.22	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Dimethylphthalate	1.0U	U	ug/L	8.3	1.0	0.15	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2,4-Dinitrophenol	8.3U	U	ug/L	16.6	8.3	1.9	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2,4-Dinitrotoluene	1.0U	U	ug/L	8.3	1.0	0.12	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2,6-Dinitrotoluene	1.0U	U	ug/L	8.3	1.0	0.22	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
1,2-Diphenylhydrazine	1.0U	U	ug/L	8.3	1.0	0.27	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
bis(2-Ethylhexyl)phthalate	1.0U	U26	ug/L	8.3	1.0	0.23	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Fluoranthene	10.3	131 4	ug/L	2.1	1.0	0.18	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Fluorene	0.31J	J	ug/L	2.1	1.0	0.21	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Hexachlorobenzene	1.0U	U	ug/L	8.3	1.0	0.24	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Hexachlorobutadiene	1.0U	U	ug/L	8.3	1.0	0.20	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Hexachlorocyclopentadiene	2.1U	U1	ug/L	8.3	2.1	0.18	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Hexachloroethane	1.0U	U	ug/L	8.3	1.0	0.31	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Indeno(1,2,3-cd)pyrene	4.3	333 4	ug/L	2.1	1.0	0.10	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Isophorone	1.0U	U	ug/L	8.3	1.0	0.16	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2-Methyl-4,6-dinitrophenol	5.2U	U	ug/L	8.3	5.2	0.34	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2-Methylnaphthalene	0.28J	J	ug/L	2.1	1.0	0.17	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Naphthalene	0.42J	J	ug/L	2.1	1.0	0.12	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2-Nitroaniline	1.0U	U2	ug/L	8.3	1.0	0.21	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
3-Nitroaniline	2.1U	U	ug/L	8.3	2.1	0.19	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
4-Nitroaniline	1.0U	U56 7	ug/L	8.3	1.0	0.42	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Nitrobenzene	2.1U	U	ug/L	8.3	2.1	0.29	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2-Nitrophenol	2.1U	U	ug/L	8.3	2.1	0.47	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
4-Nitrophenol	5.2U	U	ug/L	8.3	5.2	1.1	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
N-Nitrosodimethylamine	2.1U	U	ug/L	8.3	2.1	0.66	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
N-Nitroso-di-n-propylamine	1.0U	U	ug/L	8.3	1.0	0.25	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
N-Nitrosodiphenylamine	2.1U	U	ug/L	8.3	2.1	0.19	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Pentachlorophenol	8.3U	U	ug/L	16.6	8.3	1.1	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Phenanthrene	3.4	910	ug/L	2.1	1.0	0.13	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Phenol	1.0U	U	ug/L	8.3	1.0	0.24	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Pyrene	9.2	171 8	ug/L	2.1	1.0	0.17	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197006**

Date Collected: 8/5/2016 11:05

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW01**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
1,2,4-Trichlorobenzene	1.0U	U	ug/L	8.3	1.0	0.13	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2,4,5-Trichlorophenol	3.1U	U	ug/L	8.3	3.1	0.57	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2,4,6-Trichlorophenol	1.0U	U	ug/L	8.3	1.0	0.59	SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	48.6		%	47 - 128			SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2-Fluorobiphenyl (S)	32.2	37	%	52 - 118			SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2-Fluorophenol (S)	27.5		%	20 - 87			SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Nitrobenzene-d5 (S)	46.5		%	27 - 139			SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Phenol-d5 (S)	18.6		%	10 - 81			SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Terphenyl-d14 (S)	21.9	38	%	46 - 133			SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	48.6		%	43 - 140			SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2-Fluorobiphenyl (S)	32.2	35	%	44 - 119			SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
2-Fluorophenol (S)	27.5		%	19 - 119			SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Nitrobenzene-d5 (S)	46.5		%	44 - 120			SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Phenol-d5 (S)	18.6		%	13 - 49			SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Terphenyl-d14 (S)	21.9	36	%	50 - 134			SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Library Search - SemiVolatiles											
17-Pentatriacontene	4.6	J N	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
Benzo[e]pyrene	4.4	J N	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 01:35	CGS	B
SEMIVOLATILE SIM											
Acenaphthene	0.27	44	ug/L	0.052	0.041	0.011	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Acenaphthylene	0.15		ug/L	0.052	0.041	0.011	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Anthracene	1.1	505	ug/L	0.052	0.041	0.018	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Benzo(a)anthracene	5.3	E58 596 0	ug/L	0.052	0.041	0.018	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Benzo(a)pyrene	5.4	E70 717 2	ug/L	0.052	0.041	0.021	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Benzo(b)fluoranthene	7.4	E64 656 6	ug/L	0.052	0.041	0.021	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Benzo(g,h,i)perylene	2.9	787 980 81	ug/L	0.052	0.041	0.039	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Benzo(k)fluoranthene	2.7	676 869	ug/L	0.052	0.041	0.026	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197006**

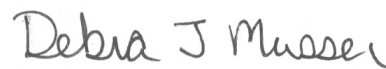
Date Collected: 8/5/2016 11:05

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW01**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Chrysene	5.3	E61 626 3	ug/L	0.052	0.041	0.018	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Dibenzo(a,h)anthracene	0.76	767 7	ug/L	0.052	0.041	0.024	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
2,4-Dinitrotoluene	0.041U	U	ug/L	0.052	0.041	0.022	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
2,6-Dinitrotoluene	0.041U	U	ug/L	0.052	0.041	0.032	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Fluoranthene	8.8	E52 535 4	ug/L	0.052	0.041	0.019	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Fluorene	0.33	454 6	ug/L	0.052	0.041	0.016	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Indeno(1,2,3-cd)pyrene	3.3	E73 747 5	ug/L	0.052	0.052	0.042	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Naphthalene	0.44	424 3	ug/L	0.052	0.041	0.038	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Pentachlorophenol	1.0U	U	ug/L	1.0	1.0	0.19	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Phenanthrene	3.2	E47 484 9	ug/L	0.052	0.041	0.021	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Pyrene	7.7	E55 565 7	ug/L	0.052	0.041	0.016	8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	32.8		%	29 - 112			8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B
Fluoranthene-d10 (S)	24.9	41	%	45 - 130			8270 SIM	8/9/16 JTH	8/11/16 22:21	CGS	B


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197007**

Date Collected: 8/5/2016 12:00

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW101**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 15:28	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 15:28	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 15:28	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 15:28	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 15:28	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197007**

Date Collected: 8/5/2016 12:00

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW101**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Hexachlorobutadiene	0.75U	U1	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 15:28	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 15:28	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 15:28	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 15:28	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 15:28	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 15:28	DD	D
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	104		%	81 - 118			SW846 8260C		8/9/16 15:28	DD	D
4-Bromofluorobenzene (S)	111		%	85 - 114			SW846 8260C		8/9/16 15:28	DD	D
Dibromofluoromethane (S)	96.5		%	80 - 119			SW846 8260C		8/9/16 15:28	DD	D
Toluene-d8 (S)	96.3		%	89 - 112			SW846 8260C		8/9/16 15:28	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected

Lib Search VOC

8/9/16 15:28 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197007**

Date Collected: 8/5/2016 12:00

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW101**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	1.1U	U	ug/L	2.1	1.1	0.16	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Acenaphthylene	1.1U	U	ug/L	2.1	1.1	0.20	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Anthracene	0.16J	J	ug/L	2.1	1.1	0.16	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Benzidine	31.9U	U	ug/L	31.9	31.9	3.3	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Benzidine	8.5U	U	ug/L	8.5	8.5	3.3	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Benzo(a)anthracene	0.64J	J	ug/L	2.1	1.1	0.14	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Benzo(a)pyrene	0.57J	J	ug/L	2.1	1.1	0.23	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Benzo(b)fluoranthene	0.78J	J	ug/L	2.1	1.1	0.12	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Benzo(g,h,i)perylene	0.40J	J	ug/L	2.1	1.1	0.23	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Benzo(k)fluoranthene	0.24J	J	ug/L	2.1	1.1	0.20	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Benzyl Alcohol	2.1U	U	ug/L	8.5	2.1	0.24	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
4-Bromophenyl-phenylether	1.1U	U	ug/L	8.5	1.1	0.18	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Butylbenzylphthalate	1.1U	U	ug/L	8.5	1.1	0.12	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Carbazole	1.1U	U	ug/L	8.5	1.1	0.13	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
4-Chloro-3-methylphenol	1.1U	U	ug/L	8.5	1.1	0.20	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
4-Chloroaniline	1.1U	U	ug/L	8.5	1.1	0.22	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
bis(2-Chloroethoxy)methane	1.1U	U	ug/L	8.5	1.1	0.22	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
bis(2-Chloroethyl)ether	1.1U	U	ug/L	8.5	1.1	0.18	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
bis(2-Chloroisopropyl)ether	1.1U	U	ug/L	8.5	1.1	0.30	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2-Chloronaphthalene	1.1U	U	ug/L	8.5	1.1	0.19	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2-Chlorophenol	2.1U	U	ug/L	8.5	2.1	0.35	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
4-Chlorophenyl-phenylether	1.1U	U	ug/L	8.5	1.1	0.15	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Chrysene	0.51J	J	ug/L	2.1	1.1	0.13	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
mp-Cresol	1.1U	U	ug/L	8.5	1.1	0.16	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
o-Cresol	1.1U	U	ug/L	8.5	1.1	0.27	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Di-n-Butylphthalate	0.24J	J	ug/L	8.5	1.1	0.15	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Di-n-Octylphthalate	1.1U	U	ug/L	8.5	1.1	0.11	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Dibenzo(a,h)anthracene	1.1U	U	ug/L	2.1	1.1	0.22	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Dibenzofuran	1.1U	U	ug/L	8.5	1.1	0.12	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
1,2-Dichlorobenzene	1.1U	U	ug/L	8.5	1.1	0.21	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
1,3-Dichlorobenzene	1.1U	U	ug/L	8.5	1.1	0.18	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
1,4-Dichlorobenzene	1.1U	U	ug/L	8.5	1.1	0.19	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
3,3-Dichlorobenzidine	3.2U	U	ug/L	17.0	3.2	0.51	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2,4-Dichlorophenol	1.1U	U	ug/L	8.5	1.1	0.34	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Diethylphthalate	0.88J	J	ug/L	8.5	1.1	0.19	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2,4-Dimethylphenol	5.3U	U	ug/L	8.5	5.3	0.22	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Dimethylphthalate	1.1U	U	ug/L	8.5	1.1	0.15	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2,4-Dinitrophenol	8.5U	U	ug/L	17.0	8.5	1.9	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197007**

Date Collected: 8/5/2016 12:00

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW101**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2,4-Dinitrotoluene	1.1U	U	ug/L	8.5	1.1	0.13	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2,6-Dinitrotoluene	1.1U	U	ug/L	8.5	1.1	0.22	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
1,2-Diphenylhydrazine	1.1U	U	ug/L	8.5	1.1	0.28	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
bis(2-Ethylhexyl)phthalate	1.1U	U	ug/L	8.5	1.1	0.23	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Fluoranthene	1.1J	J	ug/L	2.1	1.1	0.18	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Fluorene	1.1U	U	ug/L	2.1	1.1	0.21	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Hexachlorobenzene	1.1U	U	ug/L	8.5	1.1	0.24	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Hexachlorobutadiene	1.1U	U	ug/L	8.5	1.1	0.20	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Hexachlorocyclopentadiene	2.1U	U	ug/L	8.5	2.1	0.18	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	87.1		%	47 - 128			SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2-Fluorobiphenyl (S)	77.8		%	52 - 118			SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2-Fluorophenol (S)	60.8		%	20 - 87			SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Nitrobenzene-d5 (S)	85.1		%	27 - 139			SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Phenol-d5 (S)	41.4		%	10 - 81			SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Terphenyl-d14 (S)	79.1		%	46 - 133			SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Hexachloroethane	1.1U	U	ug/L	8.5	1.1	0.32	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Indeno(1,2,3-cd)pyrene	0.45J	J	ug/L	2.1	1.1	0.11	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Isophorone	1.1U	U	ug/L	8.5	1.1	0.16	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2-Methyl-4,6-dinitrophenol	5.3U	U	ug/L	8.5	5.3	0.35	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2-Methylnaphthalene	1.1U	U	ug/L	2.1	1.1	0.17	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Naphthalene	1.1U	U	ug/L	2.1	1.1	0.13	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2-Nitroaniline	1.1U	U	ug/L	8.5	1.1	0.21	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
3-Nitroaniline	2.1U	U	ug/L	8.5	2.1	0.19	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
4-Nitroaniline	1.1U	U	ug/L	8.5	1.1	0.44	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Nitrobenzene	2.1U	U	ug/L	8.5	2.1	0.30	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2-Nitrophenol	2.1U	U	ug/L	8.5	2.1	0.48	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
4-Nitrophenol	5.3U	U	ug/L	8.5	5.3	1.1	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
N-Nitrosodimethylamine	2.1U	U	ug/L	8.5	2.1	0.68	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
N-Nitroso-di-n-propylamine	1.1U	U	ug/L	8.5	1.1	0.26	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
N-Nitrosodiphenylamine	2.1U	U	ug/L	8.5	2.1	0.19	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Pentachlorophenol	8.5U	U	ug/L	17.0	8.5	1.1	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Phenanthrene	0.47J	J	ug/L	2.1	1.1	0.14	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Phenol	1.1U	U	ug/L	8.5	1.1	0.24	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
Pyrene	1.1J	J	ug/L	2.1	1.1	0.17	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
1,2,4-Trichlorobenzene	1.1U	U	ug/L	8.5	1.1	0.14	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2,4,5-Trichlorophenol	3.2U	U	ug/L	8.5	3.2	0.59	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B
2,4,6-Trichlorophenol	1.1U	U	ug/L	8.5	1.1	0.61	SW846 8270D	8/10/16 JTH	8/16/16 14:50	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197007**

Date Collected: 8/5/2016 12:00

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW101**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	87.1		%	43 - 140			SW846 8270D	8/10/16	JTH	8/16/16 14:50	CGS	B
2-Fluorobiphenyl (S)	77.8		%	44 - 119			SW846 8270D	8/10/16	JTH	8/16/16 14:50	CGS	B
2-Fluorophenol (S)	60.8		%	19 - 119			SW846 8270D	8/10/16	JTH	8/16/16 14:50	CGS	B
Nitrobenzene-d5 (S)	85.1		%	44 - 120			SW846 8270D	8/10/16	JTH	8/16/16 14:50	CGS	B
Phenol-d5 (S)	41.4		%	13 - 49			SW846 8270D	8/10/16	JTH	8/16/16 14:50	CGS	B
Terphenyl-d14 (S)	79.1		%	50 - 134			SW846 8270D	8/10/16	JTH	8/16/16 14:50	CGS	B
Library Search - SemiVolatiles												
Unknown	5.3	J	ug/L				SW846 8270D	8/10/16	JTH	8/16/16 14:50	CGS	B
Unknown	5.3	J	ug/L				SW846 8270D	8/10/16	JTH	8/16/16 14:50	CGS	B
Unknown	49.7	J	ug/L				SW846 8270D	8/10/16	JTH	8/16/16 14:50	CGS	B
Unknown	49.7	J	ug/L				SW846 8270D	8/10/16	JTH	8/16/16 14:50	CGS	B
SEMIVOLATILE SIM												
Acenaphthene	0.065		ug/L	0.053	0.043	0.012	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Acenaphthylene	0.020J	J	ug/L	0.053	0.043	0.012	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Anthracene	0.14		ug/L	0.053	0.043	0.018	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Benzo(a)anthracene	0.54		ug/L	0.053	0.043	0.018	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Benzo(a)pyrene	0.54		ug/L	0.053	0.043	0.021	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Benzo(b)fluoranthene	0.73		ug/L	0.053	0.043	0.021	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Benzo(g,h,i)perylene	0.36		ug/L	0.053	0.043	0.040	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Benzo(k)fluoranthene	0.26		ug/L	0.053	0.043	0.027	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Chrysene	0.52		ug/L	0.053	0.043	0.018	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Dibenzo(a,h)anthracene	0.094		ug/L	0.053	0.043	0.024	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
2,4-Dinitrotoluene	0.043U	U	ug/L	0.053	0.043	0.022	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
2,6-Dinitrotoluene	0.043U	U	ug/L	0.053	0.043	0.033	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Fluoranthene	0.97		ug/L	0.053	0.043	0.019	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Fluorene	0.063		ug/L	0.053	0.043	0.016	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Indeno(1,2,3-cd)pyrene	0.40		ug/L	0.053	0.053	0.044	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Naphthalene	0.070		ug/L	0.053	0.043	0.039	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Pentachlorophenol	1.1U	U	ug/L	1.1	1.1	0.19	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Phenanthrene	0.42		ug/L	0.053	0.043	0.021	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Pyrene	0.87		ug/L	0.053	0.043	0.016	8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2-Methylnapthalene-d10 (S)	74		%	29 - 112			8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B
Fluoranthene-d10 (S)	87.1		%	45 - 130			8270 SIM	8/10/16	JTH	8/12/16 15:04	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197007**

Date Collected: 8/5/2016 12:00

Matrix: Water

Sample ID: **99-PAR-79-A75-TMW101**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator**ALS Environmental Laboratory Locations Across North America****Canada:** Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197008**

Date Collected: 8/5/2016 12:50

Matrix: Water

Sample ID: **99-PAR-79-EB-08052016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 11:26	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 11:26	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 11:26	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 11:26	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 11:26	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197008**

Date Collected: 8/5/2016 12:50

Matrix: Water

Sample ID: **99-PAR-79-EB-08052016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Hexachlorobutadiene	0.75U	U1	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 11:26	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 11:26	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 11:26	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 11:26	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:26	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 11:26	DD	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	81 - 118			SW846 8260C		8/9/16 11:26	DD	D
4-Bromofluorobenzene (S)	111		%	85 - 114			SW846 8260C		8/9/16 11:26	DD	D
Dibromofluoromethane (S)	95.9		%	80 - 119			SW846 8260C		8/9/16 11:26	DD	D
Toluene-d8 (S)	98.7		%	89 - 112			SW846 8260C		8/9/16 11:26	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected

Lib Search VOC

8/9/16 11:26 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197008**

Date Collected: 8/5/2016 12:50

Matrix: Water

Sample ID: **99-PAR-79-EB-08052016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	1.0U	U	ug/L	2.1	1.0	0.15	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Acenaphthylene	1.0U	U	ug/L	2.1	1.0	0.20	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Anthracene	1.0U	U	ug/L	2.1	1.0	0.15	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Benzidine	8.2U	U	ug/L	8.2	8.2	3.2	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Benzidine	30.9U	U	ug/L	30.9	30.9	3.2	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Benzo(a)anthracene	1.0U	U	ug/L	2.1	1.0	0.13	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Benzo(a)pyrene	1.0U	U	ug/L	2.1	1.0	0.23	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Benzo(b)fluoranthene	1.0U	U	ug/L	2.1	1.0	0.11	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Benzo(g,h,i)perylene	1.0U	U	ug/L	2.1	1.0	0.23	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Benzo(k)fluoranthene	1.0U	U	ug/L	2.1	1.0	0.20	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Benzyl Alcohol	2.1U	U	ug/L	8.2	2.1	0.24	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
4-Bromophenyl-phenylether	1.0U	U	ug/L	8.2	1.0	0.18	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Butylbenzylphthalate	1.0U	U	ug/L	8.2	1.0	0.11	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Carbazole	1.0U	U	ug/L	8.2	1.0	0.12	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
4-Chloro-3-methylphenol	1.0U	U	ug/L	8.2	1.0	0.20	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
4-Chloroaniline	1.0U	U	ug/L	8.2	1.0	0.22	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
bis(2-Chloroethoxy)methane	1.0U	U	ug/L	8.2	1.0	0.22	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
bis(2-Chloroethyl)ether	1.0U	U	ug/L	8.2	1.0	0.18	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
bis(2-Chloroisopropyl)ether	1.0U	U	ug/L	8.2	1.0	0.29	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
2-Chloronaphthalene	1.0U	U	ug/L	8.2	1.0	0.19	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
2-Chlorophenol	2.1U	U	ug/L	8.2	2.1	0.34	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
4-Chlorophenyl-phenylether	1.0U	U	ug/L	8.2	1.0	0.14	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Chrysene	1.0U	U	ug/L	2.1	1.0	0.12	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
mp-Cresol	1.0U	U	ug/L	8.2	1.0	0.15	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
o-Cresol	1.0U	U	ug/L	8.2	1.0	0.26	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Di-n-Butylphthalate	1.0U	U	ug/L	8.2	1.0	0.14	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Di-n-Octylphthalate	1.0U	U	ug/L	8.2	1.0	0.10	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Dibenzo(a,h)anthracene	1.0U	U	ug/L	2.1	1.0	0.22	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Dibenzofuran	1.0U	U	ug/L	8.2	1.0	0.11	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
1,2-Dichlorobenzene	1.0U	U	ug/L	8.2	1.0	0.21	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
1,3-Dichlorobenzene	1.0U	U	ug/L	8.2	1.0	0.18	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
1,4-Dichlorobenzene	1.0U	U	ug/L	8.2	1.0	0.19	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
3,3-Dichlorobenzidine	3.1U	U	ug/L	16.5	3.1	0.49	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
2,4-Dichlorophenol	1.0U	U	ug/L	8.2	1.0	0.33	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Diethylphthalate	1.0U	U	ug/L	8.2	1.0	0.19	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
2,4-Dimethylphenol	5.2U	U	ug/L	8.2	5.2	0.22	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
Dimethylphthalate	1.0U	U	ug/L	8.2	1.0	0.14	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B
2,4-Dinitrophenol	8.2U	U	ug/L	16.5	8.2	1.9	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197008**

Date Collected: 8/5/2016 12:50

Matrix: Water

Sample ID: **99-PAR-79-EB-08052016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr	
2,4-Dinitrotoluene	1.0U	U	ug/L	8.2	1.0	0.12	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
2,6-Dinitrotoluene	1.0U	U	ug/L	8.2	1.0	0.22	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
1,2-Diphenylhydrazine	1.0U	U	ug/L	8.2	1.0	0.27	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
bis(2-Ethylhexyl)phthalate	1.0U	U	ug/L	8.2	1.0	0.23	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Fluoranthene	1.0U	U	ug/L	2.1	1.0	0.18	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Fluorene	1.0U	U	ug/L	2.1	1.0	0.21	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Hexachlorobenzene	1.0U	U	ug/L	8.2	1.0	0.24	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Hexachlorobutadiene	1.0U	U	ug/L	8.2	1.0	0.20	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Hexachlorocyclopentadiene	2.1U	U	ug/L	8.2	2.1	0.18	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Hexachloroethane	1.0U	U	ug/L	8.2	1.0	0.31	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Indeno(1,2,3-cd)pyrene	1.0U	U	ug/L	2.1	1.0	0.10	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Isophorone	1.0U	U	ug/L	8.2	1.0	0.15	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
2-Methyl-4,6-dinitrophenol	5.2U	U	ug/L	8.2	5.2	0.34	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
2-Methylnaphthalene	1.0U	U	ug/L	2.1	1.0	0.16	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Naphthalene	1.0U	U	ug/L	2.1	1.0	0.12	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
2-Nitroaniline	1.0U	U	ug/L	8.2	1.0	0.21	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
3-Nitroaniline	2.1U	U	ug/L	8.2	2.1	0.19	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
4-Nitroaniline	1.0U	U	ug/L	8.2	1.0	0.42	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Nitrobenzene	2.1U	U	ug/L	8.2	2.1	0.29	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
2-Nitrophenol	2.1U	U	ug/L	8.2	2.1	0.46	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
4-Nitrophenol	5.2U	U	ug/L	8.2	5.2	1.1	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
N-Nitrosodimethylamine	2.1U	U	ug/L	8.2	2.1	0.66	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
N-Nitroso-di-n-propylamine	1.0U	U	ug/L	8.2	1.0	0.25	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
N-Nitrosodiphenylamine	2.1U	U	ug/L	8.2	2.1	0.19	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Pentachlorophenol	8.2U	U	ug/L	16.5	8.2	1.1	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Phenanthrene	1.0U	U	ug/L	2.1	1.0	0.13	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Phenol	1.0U	U	ug/L	8.2	1.0	0.24	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Pyrene	1.0U	U	ug/L	2.1	1.0	0.16	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
1,2,4-Trichlorobenzene	1.0U	U	ug/L	8.2	1.0	0.13	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
2,4,5-Trichlorophenol	3.1U	U	ug/L	8.2	3.1	0.57	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
2,4,6-Trichlorophenol	1.0U	U	ug/L	8.2	1.0	0.59	SW846 8270D	8/10/16 JTH	8/16/16 15:15	CGS	B	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	89		%	47 - 128			SW846 8270D	8/10/16	JTH	8/16/16 15:15	CGS	B
2-Fluorobiphenyl (S)	82.5		%	52 - 118			SW846 8270D	8/10/16	JTH	8/16/16 15:15	CGS	B
2-Fluorophenol (S)	58.1		%	20 - 87			SW846 8270D	8/10/16	JTH	8/16/16 15:15	CGS	B
Nitrobenzene-d5 (S)	86.5		%	27 - 139			SW846 8270D	8/10/16	JTH	8/16/16 15:15	CGS	B
Phenol-d5 (S)	38.1		%	10 - 81			SW846 8270D	8/10/16	JTH	8/16/16 15:15	CGS	B
Terphenyl-d14 (S)	90.9		%	46 - 133			SW846 8270D	8/10/16	JTH	8/16/16 15:15	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197008**

Date Collected: 8/5/2016 12:50

Matrix: Water

Sample ID: **99-PAR-79-EB-08052016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	89		%	43 - 140			SW846 8270D	8/10/16	JTH	8/16/16 15:15	CGS	B
2-Fluorobiphenyl (S)	82.5		%	44 - 119			SW846 8270D	8/10/16	JTH	8/16/16 15:15	CGS	B
2-Fluorophenol (S)	58.1		%	19 - 119			SW846 8270D	8/10/16	JTH	8/16/16 15:15	CGS	B
Nitrobenzene-d5 (S)	86.5		%	44 - 120			SW846 8270D	8/10/16	JTH	8/16/16 15:15	CGS	B
Phenol-d5 (S)	38.1		%	13 - 49			SW846 8270D	8/10/16	JTH	8/16/16 15:15	CGS	B
Terphenyl-d14 (S)	90.9		%	50 - 134			SW846 8270D	8/10/16	JTH	8/16/16 15:15	CGS	B
SEMIVOLATILE SIM												
Acenaphthene	0.041U	U	ug/L	0.052	0.041	0.011	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Acenaphthylene	0.041U	U	ug/L	0.052	0.041	0.011	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Anthracene	0.041U	U	ug/L	0.052	0.041	0.018	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Benzo(a)anthracene	0.041U	U	ug/L	0.052	0.041	0.018	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Benzo(a)pyrene	0.041U	U	ug/L	0.052	0.041	0.021	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Benzo(b)fluoranthene	0.041U	U	ug/L	0.052	0.041	0.021	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Benzo(g,h,i)perylene	0.041U	U	ug/L	0.052	0.041	0.039	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Benzo(k)fluoranthene	0.041U	U	ug/L	0.052	0.041	0.026	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Chrysene	0.041U	U	ug/L	0.052	0.041	0.018	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Dibenzo(a,h)anthracene	0.041U	U	ug/L	0.052	0.041	0.024	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
2,4-Dinitrotoluene	0.041U	U	ug/L	0.052	0.041	0.022	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
2,6-Dinitrotoluene	0.041U	U	ug/L	0.052	0.041	0.032	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Fluoranthene	0.041U	U	ug/L	0.052	0.041	0.019	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Fluorene	0.041U	U	ug/L	0.052	0.041	0.015	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Indeno(1,2,3-cd)pyrene	0.052U	U	ug/L	0.052	0.052	0.042	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Naphthalene	0.041U	U	ug/L	0.052	0.041	0.038	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Pentachlorophenol	1.0U	U	ug/L	1.0	1.0	0.19	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Phenanthrene	0.041U	U	ug/L	0.052	0.041	0.021	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Pyrene	0.041U	U	ug/L	0.052	0.041	0.015	8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2-Methylnapthalene-d10 (S)	77.6		%	29 - 112			8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
Fluoranthene-d10 (S)	90		%	45 - 130			8270 SIM	8/10/16	JTH	8/12/16 15:56	CGS	B
LIBRARY SEARCH - SEMI-VOLATILE												
No TIC's Detected	.						Lib Search SV			8/16/16 15:15	EGO	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



ALS Environmental



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197008**

Date Collected: 8/5/2016 12:50

Matrix: Water

Sample ID: **99-PAR-79-EB-08052016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197009**

Date Collected: 8/5/2016 00:00

Matrix: Water

Sample ID: **99-PAR-79-TB-08052016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	12.7		ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 11:48	DD	B
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 11:48	DD	B
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
2-Butanone	2.4J	J	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 11:48	DD	B
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 11:48	DD	B
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 11:48	DD	B
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197009**

Date Collected: 8/5/2016 00:00

Matrix: Water

Sample ID: **99-PAR-79-TB-08052016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Hexachlorobutadiene	0.75U	U1	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 11:48	DD	B
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 11:48	DD	B
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 11:48	DD	B
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 11:48	DD	B
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:48	DD	B
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 11:48	DD	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	81 - 118			SW846 8260C		8/9/16 11:48	DD	B
4-Bromofluorobenzene (S)	114		%	85 - 114			SW846 8260C		8/9/16 11:48	DD	B
Dibromofluoromethane (S)	96.5		%	80 - 119			SW846 8260C		8/9/16 11:48	DD	B
Toluene-d8 (S)	100		%	89 - 112			SW846 8260C		8/9/16 11:48	DD	B
LIBRARY SEARCH - VOLATILES											
No TIC's Detected	.						Lib Search VOC		8/9/16 11:48	JAH	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

Lab ID: **2165197009**

Date Collected: 8/5/2016 00:00

Matrix: Water

Sample ID: **99-PAR-79-TB-08052016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2165197001	1	99-PAR-79-490-TMW01	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 30.5 and the control limits were 50 to 134. This result was reported at a dilution of 1.				
2165197001	2	99-PAR-79-490-TMW01	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 30.5 and the control limits were 46 to 133. This result was reported at a dilution of 1.				
2165197001	3	99-PAR-79-490-TMW01	8270 SIM	Fluoranthene-d10
The surrogate Fluoranthene-d10 for method 8270 SIM was outside of control limits. The % Recovery was reported as 33.4 and the control limits were 45 to 130. This result was reported at a dilution of 1.				
2165197001	4	99-PAR-79-490-TMW01	8270 SIM	Benzo(g,h,i)perylene
The Method Blank for method 8270 SIM reported a value greater than the reporting level for the analyte Benzo(g,h,i)perylene.				
2165197001	5	99-PAR-79-490-TMW01	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165197002	1	99-PAR-79-490-TMW02	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165197002	2	99-PAR-79-490-TMW02	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 49.7 and the control limits were 50 to 134. This result was reported at a dilution of 1.				
2165197003	2	99-PAR-79-142-TMW01	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165197003	3	99-PAR-79-142-TMW01	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 28.4 and the control limits were 52 to 118. This result was reported at a dilution of 1.				
2165197003	4	99-PAR-79-142-TMW01	SW846 8270D	2,4,6-Tribromophenol
The surrogate 2,4,6-Tribromophenol for method SW846 8270D was outside of control limits. The % Recovery was reported as 13.4 and the control limits were 47 to 128. This result was reported at a dilution of 1.				
2165197003	5	99-PAR-79-142-TMW01	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 14.7 and the control limits were 46 to 133. This result was reported at a dilution of 1.				
2165197003	6	99-PAR-79-142-TMW01	SW846 8270D	2-Fluorophenol
The surrogate 2-Fluorophenol for method SW846 8270D was outside of control limits. The % Recovery was reported as 7.97 and the control limits were 20 to 87. This result was reported at a dilution of 1.				
2165197003	7	99-PAR-79-142-TMW01	SW846 8270D	Phenol-d5
The surrogate Phenol-d5 for method SW846 8270D was outside of control limits. The % Recovery was reported as 8.4 and the control limits were 10 to 81. This result was reported at a dilution of 1.				
2165197003	8	99-PAR-79-142-TMW01	SW846 8270D	2-Fluorophenol
The surrogate 2-Fluorophenol for method SW846 8270D was outside of control limits. The % Recovery was reported as 7.97 and the control limits were 19 to 119. This result was reported at a dilution of 1.				
2165197003	9	99-PAR-79-142-TMW01	SW846 8270D	Phenol-d5
The surrogate Phenol-d5 for method SW846 8270D was outside of control limits. The % Recovery was reported as 8.4 and the control limits were 13 to 49. This result was reported at a dilution of 1.				
2165197003	10	99-PAR-79-142-TMW01	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 28.4 and the control limits were 44 to 119. This result was reported at a dilution of 1.				
2165197003	11	99-PAR-79-142-TMW01	SW846 8270D	2,4,6-Tribromophenol
The surrogate 2,4,6-Tribromophenol for method SW846 8270D was outside of control limits. The % Recovery was reported as 13.4 and the control limits were 43 to 140. This result was reported at a dilution of 1.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

2165197003	12	99-PAR-79-142-TMW01	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 14.7 and the control limits were 50 to 134. This result was reported at a dilution of 1.				
2165197003	13	99-PAR-79-142-TMW01	8270 SIM	Fluoranthene-d10
The surrogate Fluoranthene-d10 for method 8270 SIM was outside of control limits. The % Recovery was reported as 21.1 and the control limits were 45 to 130. This result was reported at a dilution of 1.				
2165197003	17	99-PAR-79-142-TMW01	8270 SIM	Fluoranthene-d10
The surrogate Fluoranthene-d10 for method 8270 SIM was outside of control limits. The % Recovery was reported as 34.8 and the control limits were 45 to 130. This result was reported at a dilution of 1.				
2165197003	18	99-PAR-79-142-TMW01	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 24.3 and the control limits were 50 to 134. This result was reported at a dilution of 1.				
2165197003	19	99-PAR-79-142-TMW01	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 51.5 and the control limits were 52 to 118. This result was reported at a dilution of 1.				
2165197003	20	99-PAR-79-142-TMW01	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 24.3 and the control limits were 46 to 133. This result was reported at a dilution of 1.				
2165197003	E	99-PAR-79-142-TMW01	8270 SIM	Benzo(g,h,i)perylene
Result reported exceeds instrument calibration				
2165197003	E	99-PAR-79-142-TMW01	8270 SIM	Chrysene
Result reported exceeds instrument calibration				
2165197003	E	99-PAR-79-142-TMW01	8270 SIM	Pyrene
Result reported exceeds instrument calibration				
2165197003	E	99-PAR-79-142-TMW01	8270 SIM	Benzo(b)fluoranthene
Result reported exceeds instrument calibration				
2165197003	E	99-PAR-79-142-TMW01	8270 SIM	Fluoranthene
Result reported exceeds instrument calibration				
2165197003	E	99-PAR-79-142-TMW01	8270 SIM	Benzo(a)pyrene
Result reported exceeds instrument calibration				
2165197003	E	99-PAR-79-142-TMW01	8270 SIM	Indeno(1,2,3-cd)pyrene
Result reported exceeds instrument calibration				
2165197004	1	99-PAR-79-202-TMW01	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165197004	2	99-PAR-79-202-TMW01	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 44.6 and the control limits were 46 to 133. This result was reported at a dilution of 1.				
2165197004	3	99-PAR-79-202-TMW01	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 44.6 and the control limits were 50 to 134. This result was reported at a dilution of 1.				
2165197005	1	99-PAR-79-A75-TMW02	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165197006	1	99-PAR-79-A75-TMW01	SW846 8270D	Hexachlorocyclopentadiene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Hexachlorocyclopentadiene. The % Recovery was reported as 25.4 and the control limits were 26 to 96.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

2165197006	2	99-PAR-79-A75-TMW01	SW846 8270D	2-Nitroaniline
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte 2-Nitroaniline. The % Recovery was reported as 47.3 and the control limits were 55 to 127.				
2165197006	3	99-PAR-79-A75-TMW01	SW846 8270D	Dibenzofuran
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Dibenzofuran. The % Recovery was reported as 51.8 and the control limits were 53 to 118.				
2165197006	4	99-PAR-79-A75-TMW01	SW846 8270D	4-Chlorophenyl-phenylether
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte 4-Chlorophenyl-phenylether. The % Recovery was reported as 51.4 and the control limits were 53 to 121.				
2165197006	5	99-PAR-79-A75-TMW01	SW846 8270D	4-Nitroaniline
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte 4-Nitroaniline. The % Recovery was reported as 42.8 and the control limits were 60 to 130.				
2165197006	6	99-PAR-79-A75-TMW01	SW846 8270D	4-Nitroaniline
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte 4-Nitroaniline. The RPD was reported as 39.1 and the upper control limit is 30.				
2165197006	7	99-PAR-79-A75-TMW01	SW846 8270D	4-Nitroaniline
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte 4-Nitroaniline. The % Recovery was reported as 28.5 and the control limits were 60 to 130.				
2165197006	8	99-PAR-79-A75-TMW01	SW846 8270D	4-Bromophenyl-phenylether
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte 4-Bromophenyl-phenylether. The % Recovery was reported as 53.5 and the control limits were 55 to 124.				
2165197006	9	99-PAR-79-A75-TMW01	SW846 8270D	Phenanthrene
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Phenanthrene. The % Recovery was reported as 46.5 and the control limits were 59 to 120.				
2165197006	10	99-PAR-79-A75-TMW01	SW846 8270D	Phenanthrene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Phenanthrene. The % Recovery was reported as 51.9 and the control limits were 59 to 120.				
2165197006	11	99-PAR-79-A75-TMW01	SW846 8270D	Anthracene
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Anthracene. The % Recovery was reported as 51.3 and the control limits were 57 to 123.				
2165197006	12	99-PAR-79-A75-TMW01	SW846 8270D	Di-n-Butylphthalate
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Di-n-Butylphthalate. The % Recovery was reported as 56 and the control limits were 59 to 127.				
2165197006	13	99-PAR-79-A75-TMW01	SW846 8270D	Fluoranthene
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Fluoranthene. The % Recovery was reported as 39.3 and the control limits were 57 to 128.				
2165197006	14	99-PAR-79-A75-TMW01	SW846 8270D	Fluoranthene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Fluoranthene. The % Recovery was reported as 40.8 and the control limits were 57 to 128.				
2165197006	15	99-PAR-79-A75-TMW01	SW846 8270D	Benzidine
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Benzidine. The % Recovery was reported as .55 and the control limits were 1 to 139.				
2165197006	16	99-PAR-79-A75-TMW01	SW846 8270D	Benzidine
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Benzidine. The RPD was reported as 132 and the upper control limit is 30.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

2165197006	17	99-PAR-79-A75-TMW01	SW846 8270D	Pyrene	The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Pyrene. The % Recovery was reported as 39.1 and the control limits were 57 to 126.
2165197006	18	99-PAR-79-A75-TMW01	SW846 8270D	Pyrene	The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Pyrene. The % Recovery was reported as 41.7 and the control limits were 57 to 126.
2165197006	19	99-PAR-79-A75-TMW01	SW846 8270D	3,3-Dichlorobenzidine	The QC sample type MS for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 12 and the control limits were 27 to 129.
2165197006	20	99-PAR-79-A75-TMW01	SW846 8270D	3,3-Dichlorobenzidine	The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The RPD was reported as 38 and the upper control limit is 30.
2165197006	21	99-PAR-79-A75-TMW01	SW846 8270D	3,3-Dichlorobenzidine	The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 17.4 and the control limits were 27 to 129.
2165197006	22	99-PAR-79-A75-TMW01	SW846 8270D	Benzo(a)anthracene	The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Benzo(a)anthracene. The % Recovery was reported as 46.4 and the control limits were 58 to 125.
2165197006	23	99-PAR-79-A75-TMW01	SW846 8270D	Benzo(a)anthracene	The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Benzo(a)anthracene. The % Recovery was reported as 49.5 and the control limits were 58 to 125.
2165197006	24	99-PAR-79-A75-TMW01	SW846 8270D	Chrysene	The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Chrysene. The % Recovery was reported as 47.5 and the control limits were 59 to 123.
2165197006	25	99-PAR-79-A75-TMW01	SW846 8270D	Chrysene	The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Chrysene. The % Recovery was reported as 50.3 and the control limits were 59 to 123.
2165197006	26	99-PAR-79-A75-TMW01	SW846 8270D	bis(2-Ethylhexyl)phthalate	The QC sample type MS for method SW846 8270D was outside the control limits for the analyte bis(2-Ethylhexyl)phthalate. The % Recovery was reported as 52.9 and the control limits were 55 to 135.
2165197006	27	99-PAR-79-A75-TMW01	SW846 8270D	Benzo(b)fluoranthene	The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Benzo(b)fluoranthene. The % Recovery was reported as 42.1 and the control limits were 53 to 131.
2165197006	28	99-PAR-79-A75-TMW01	SW846 8270D	Benzo(b)fluoranthene	The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Benzo(b)fluoranthene. The % Recovery was reported as 44.2 and the control limits were 53 to 131.
2165197006	29	99-PAR-79-A75-TMW01	SW846 8270D	Benzo(k)fluoranthene	The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Benzo(k)fluoranthene. The % Recovery was reported as 52.3 and the control limits were 57 to 129.
2165197006	30	99-PAR-79-A75-TMW01	SW846 8270D	Benzo(k)fluoranthene	The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Benzo(k)fluoranthene. The % Recovery was reported as 55.1 and the control limits were 57 to 129.
2165197006	31	99-PAR-79-A75-TMW01	SW846 8270D	Benzo(a)pyrene	The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Benzo(a)pyrene. The % Recovery was reported as 45.7 and the control limits were 54 to 128.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

2165197006	32	99-PAR-79-A75-TMW01	SW846 8270D	Benzo(a)pyrene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Benzo(a)pyrene. The % Recovery was reported as 46.8 and the control limits were 54 to 128.				
2165197006	33	99-PAR-79-A75-TMW01	SW846 8270D	Indeno(1,2,3-cd)pyrene
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Indeno(1,2,3-cd)pyrene. The % Recovery was reported as 49.7 and the control limits were 52 to 134.				
2165197006	34	99-PAR-79-A75-TMW01	SW846 8270D	Indeno(1,2,3-cd)pyrene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Indeno(1,2,3-cd)pyrene. The % Recovery was reported as 51.7 and the control limits were 52 to 134.				
2165197006	35	99-PAR-79-A75-TMW01	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 32.2 and the control limits were 44 to 119. This result was reported at a dilution of 1.				
2165197006	36	99-PAR-79-A75-TMW01	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 21.9 and the control limits were 50 to 134. This result was reported at a dilution of 1.				
2165197006	37	99-PAR-79-A75-TMW01	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 32.2 and the control limits were 52 to 118. This result was reported at a dilution of 1.				
2165197006	38	99-PAR-79-A75-TMW01	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 21.9 and the control limits were 46 to 133. This result was reported at a dilution of 1.				
2165197006	39	99-PAR-79-A75-TMW01	SW846 8270D	Benzidine
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Benzidine. The % Recovery was reported as 0 and the control limits were 5 to 142.				
2165197006	40	99-PAR-79-A75-TMW01	SW846 8270D	Benzidine
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Benzidine. The % Recovery was reported as 0 and the control limits were 5 to 142.				
2165197006	41	99-PAR-79-A75-TMW01	8270 SIM	Fluoranthene-d10
The surrogate Fluoranthene-d10 for method 8270 SIM was outside of control limits. The % Recovery was reported as 24.9 and the control limits were 45 to 130. This result was reported at a dilution of 1.				
2165197006	42	99-PAR-79-A75-TMW01	8270 SIM	Naphthalene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 30.5 and the control limits were 43 to 114.				
2165197006	43	99-PAR-79-A75-TMW01	8270 SIM	Naphthalene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 16.5 and the control limits were 43 to 114.				
2165197006	44	99-PAR-79-A75-TMW01	8270 SIM	Acenaphthene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Acenaphthene. The % Recovery was reported as 35 and the control limits were 48 to 114.				
2165197006	45	99-PAR-79-A75-TMW01	8270 SIM	Fluorene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Fluorene. The % Recovery was reported as 41.3 and the control limits were 50 to 118.				
2165197006	46	99-PAR-79-A75-TMW01	8270 SIM	Fluorene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Fluorene. The % Recovery was reported as 29.6 and the control limits were 50 to 118.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

2165197006	47	99-PAR-79-A75-TMW01	8270 SIM	Phenanthrene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Phenanthrene. The % Recovery was reported as -171 and the control limits were 53 to 115.				
2165197006	48	99-PAR-79-A75-TMW01	8270 SIM	Phenanthrene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Phenanthrene. The % Recovery was reported as -214 and the control limits were 53 to 115.				
2165197006	49	99-PAR-79-A75-TMW01	8270 SIM	Phenanthrene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Phenanthrene. The RPD was reported as 35.9 and the upper control limit is 30.				
2165197006	50	99-PAR-79-A75-TMW01	8270 SIM	Anthracene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Anthracene. The % Recovery was reported as -20.8 and the control limits were 53 to 119.				
2165197006	51	99-PAR-79-A75-TMW01	8270 SIM	Anthracene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Anthracene. The % Recovery was reported as -37.5 and the control limits were 53 to 119.				
2165197006	52	99-PAR-79-A75-TMW01	8270 SIM	Fluoranthene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Fluoranthene. The % Recovery was reported as -586 and the control limits were 58 to 120.				
2165197006	53	99-PAR-79-A75-TMW01	8270 SIM	Fluoranthene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Fluoranthene. The % Recovery was reported as -703 and the control limits were 58 to 120.				
2165197006	54	99-PAR-79-A75-TMW01	8270 SIM	Fluoranthene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Fluoranthene. The RPD was reported as 57.1 and the upper control limit is 30.				
2165197006	55	99-PAR-79-A75-TMW01	8270 SIM	Pyrene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Pyrene. The % Recovery was reported as -504 and the control limits were 53 to 121.				
2165197006	56	99-PAR-79-A75-TMW01	8270 SIM	Pyrene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Pyrene. The % Recovery was reported as -612 and the control limits were 53 to 121.				
2165197006	57	99-PAR-79-A75-TMW01	8270 SIM	Pyrene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Pyrene. The RPD was reported as 57.3 and the upper control limit is 30.				
2165197006	58	99-PAR-79-A75-TMW01	8270 SIM	Benzo(a)anthracene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Benzo(a)anthracene. The % Recovery was reported as -350 and the control limits were 59 to 120.				
2165197006	59	99-PAR-79-A75-TMW01	8270 SIM	Benzo(a)anthracene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Benzo(a)anthracene. The % Recovery was reported as -413 and the control limits were 59 to 120.				
2165197006	60	99-PAR-79-A75-TMW01	8270 SIM	Benzo(a)anthracene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Benzo(a)anthracene. The RPD was reported as 46.9 and the upper control limit is 30.				
2165197006	61	99-PAR-79-A75-TMW01	8270 SIM	Chrysene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Chrysene. The % Recovery was reported as -348 and the control limits were 57 to 120.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

2165197006	62	99-PAR-79-A75-TMW01	8270 SIM	Chrysene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Chrysene. The % Recovery was reported as -412 and the control limits were 57 to 120.				
2165197006	63	99-PAR-79-A75-TMW01	8270 SIM	Chrysene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Chrysene. The RPD was reported as 46.7 and the upper control limit is 30.				
2165197006	64	99-PAR-79-A75-TMW01	8270 SIM	Benzo(b)fluoranthene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Benzo(b)fluoranthene. The % Recovery was reported as -517 and the control limits were 53 to 126.				
2165197006	65	99-PAR-79-A75-TMW01	8270 SIM	Benzo(b)fluoranthene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Benzo(b)fluoranthene. The % Recovery was reported as -604 and the control limits were 53 to 126.				
2165197006	66	99-PAR-79-A75-TMW01	8270 SIM	Benzo(b)fluoranthene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Benzo(b)fluoranthene. The RPD was reported as 55.2 and the upper control limit is 30.				
2165197006	67	99-PAR-79-A75-TMW01	8270 SIM	Benzo(k)fluoranthene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Benzo(k)fluoranthene. The % Recovery was reported as -173 and the control limits were 54 to 125.				
2165197006	68	99-PAR-79-A75-TMW01	8270 SIM	Benzo(k)fluoranthene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Benzo(k)fluoranthene. The % Recovery was reported as -199 and the control limits were 54 to 125.				
2165197006	69	99-PAR-79-A75-TMW01	8270 SIM	Benzo(k)fluoranthene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Benzo(k)fluoranthene. The RPD was reported as 31.8 and the upper control limit is 30.				
2165197006	70	99-PAR-79-A75-TMW01	8270 SIM	Benzo(a)pyrene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Benzo(a)pyrene. The % Recovery was reported as -378 and the control limits were 53 to 120.				
2165197006	71	99-PAR-79-A75-TMW01	8270 SIM	Benzo(a)pyrene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Benzo(a)pyrene. The % Recovery was reported as -440 and the control limits were 53 to 120.				
2165197006	72	99-PAR-79-A75-TMW01	8270 SIM	Benzo(a)pyrene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Benzo(a)pyrene. The RPD was reported as 53 and the upper control limit is 30.				
2165197006	73	99-PAR-79-A75-TMW01	8270 SIM	Indeno(1,2,3-cd)pyrene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Indeno(1,2,3-cd)pyrene. The % Recovery was reported as -229 and the control limits were 48 to 130.				
2165197006	74	99-PAR-79-A75-TMW01	8270 SIM	Indeno(1,2,3-cd)pyrene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Indeno(1,2,3-cd)pyrene. The % Recovery was reported as -268 and the control limits were 48 to 130.				
2165197006	75	99-PAR-79-A75-TMW01	8270 SIM	Indeno(1,2,3-cd)pyrene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Indeno(1,2,3-cd)pyrene. The RPD was reported as 53.7 and the upper control limit is 30.				
2165197006	76	99-PAR-79-A75-TMW01	8270 SIM	Dibenzo(a,h)anthracene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Dibenzo(a,h)anthracene. The % Recovery was reported as -38.7 and the control limits were 44 to 131.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

2165197006	77	99-PAR-79-A75-TMW01	8270 SIM	Dibenzo(a,h)anthracene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Dibenzo(a,h)anthracene. The % Recovery was reported as -44.7 and the control limits were 44 to 131.				
2165197006	78	99-PAR-79-A75-TMW01	8270 SIM	Benzo(g,h,i)perylene
The Method Blank for method 8270 SIM reported a value greater than the reporting level for the analyte Benzo(g,h,i)perylene.				
2165197006	79	99-PAR-79-A75-TMW01	8270 SIM	Benzo(g,h,i)perylene
The QC sample type MS for method 8270 SIM was outside the control limits for the analyte Benzo(g,h,i)perylene. The % Recovery was reported as -200 and the control limits were 44 to 128.				
2165197006	80	99-PAR-79-A75-TMW01	8270 SIM	Benzo(g,h,i)perylene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Benzo(g,h,i)perylene. The % Recovery was reported as -233 and the control limits were 44 to 128.				
2165197006	81	99-PAR-79-A75-TMW01	8270 SIM	Benzo(g,h,i)perylene
The QC sample type MSD for method 8270 SIM was outside the control limits for the analyte Benzo(g,h,i)perylene. The RPD was reported as 51.8 and the upper control limit is 30.				
2165197006	82	99-PAR-79-A75-TMW01	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165197006	83	99-PAR-79-A75-TMW01	SW846 8260C	Hexachlorobutadiene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Hexachlorobutadiene. The % Recovery was reported as 59.5 and the control limits were 66 to 134.				
2165197006	84	99-PAR-79-A75-TMW01	SW846 8260C	Hexachlorobutadiene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Hexachlorobutadiene. The % Recovery was reported as 63.1 and the control limits were 66 to 134.				
2165197006	85	99-PAR-79-A75-TMW01	SW846 8260C	Bromomethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Bromomethane. The % Recovery was reported as 46.9 and the control limits were 53 to 141.				
2165197006	E	99-PAR-79-A75-TMW01	8270 SIM	Chrysene
Result reported exceeds instrument calibration				
2165197006	E	99-PAR-79-A75-TMW01	8270 SIM	Indeno(1,2,3-cd)pyrene
Result reported exceeds instrument calibration				
2165197006	E	99-PAR-79-A75-TMW01	8270 SIM	Benzo(a)pyrene
Result reported exceeds instrument calibration				
2165197006	E	99-PAR-79-A75-TMW01	8270 SIM	Pyrene
Result reported exceeds instrument calibration				
2165197006	E	99-PAR-79-A75-TMW01	8270 SIM	Fluoranthene
Result reported exceeds instrument calibration				
2165197006	E	99-PAR-79-A75-TMW01	8270 SIM	Benzo(b)fluoranthene
Result reported exceeds instrument calibration				
2165197006	E	99-PAR-79-A75-TMW01	8270 SIM	Benzo(a)anthracene
Result reported exceeds instrument calibration				
2165197006	E	99-PAR-79-A75-TMW01	8270 SIM	Phenanthrene
Result reported exceeds instrument calibration				
2165197007	1	99-PAR-79-A75-TMW101	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



ANALYTICAL RESULTS

Workorder: 2165197 PQF019|Ft. Monmouth GW

2165197008	1	99-PAR-79-EB-08052016	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165197009	1	99-PAR-79-TB-08052016	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



Environmental

1565 Jefferson Road
Building 300, Suite 360
Rochester, NY 14623
(585)288-5380

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC # 979-1
ALS Quote # 216-5197



Client Name: Parsons Federal			Container Type	AN	AN	CG	AN	AN	CG				Receipt Information (completed by Receiving Lab)					
Address: 100 High St 4th Floor Boston, MA 02110			Container Size	4 oz	4 oz	40mL	4 oz	1L	40mL				Cooler Temp: <u>1</u> Therm ID: <u>352</u>					
Contact: Cory Mahony Phone#: 617-449-1440 Project Name#: FTMM Bill To: Parsons Federal			Preservative	4c	4c	4C & MECH	4c	HCL	HCL				No. of Coolers: <u>1</u> Y <u>1</u> N Initial <u>SES</u>					
TAT ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.			ANALYSES/METHOD REQUESTED										Custody Seals Present? ☒ (If present) Seals Intact? ☒ Received on Ice? ☒ COC Labels Complete/Accurate? ☒ Cont. in Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒					
Date Required: <u>8/5/16</u> Approved? <u>8/5/16</u>													Courier/Tracking #: <u>123456789</u>					
Email: ☒ Y carla.rodman@parsons.com													Sample/COC Comments					
Fax: ☐ Y No.:																		
Sample Description/Location (as it will appear on the lab report)			Sample Date	Time	*G or C	**Matrix	Enter Number of Containers Per Sample or Field Results Below.											
							EPH (fractionated)	SVOCs - Naphthalene & 2-methylnaphthalene (8270D)	VOC (8260C) + TICs including 1,2-dichloroethane & 1,2-dibromoethane	Lead (6020)	SVOC (8270D) + TICs (groundwater)	VOC (8260C) + TICs (groundwater)	AUTHORIZED TO RUN	EXTRACT AND HOLD				
PAR-79-490-Tmw01			8/5/16	0855	G	GW					2	3						
2 PAR-79-490-Tmw02			8/5/16	0915	G	GW					2	3						
3 PAR-79-142-Tmw01			8/5/16	0945	G	GW					2	3						
4 PAR-79-202-Tmw01			8/5/16	1030	G	GW					2	3						
5 PAR-79-A75-Tmw02			8/5/16	1130	G	GW					2	3						
6 PAR-79-A75-Tmw01			8/5/16	1105	G	GW					2	3						
7 PAR-79-A75-Tmw01			8/5/16	1200	G	GW					2	3						
8 PAR-79-A75-Tmw01-MS			8/5/16	1105	G	GW					2	3						
9 PAR-79-A75-Tmw01-MSD			8/5/16	1105	G	GW					2	3						
10 PAR-79-EB-0805204			8/5/16	1250	G	EB					2	3						
Project Comments: 748810 MDL Must Meet NJDEP Soil Cleanup Criteria and/or Groundwater Quality Standards			LOGGED BY (signature): <u>[Signature]</u> 8/5/16 1300			REVIEWED BY (signature): <u>[Signature]</u> 8/5/16 1400			Data Deliverables ☐ Standard ☒ CLP-like ☐ USACE			Special Processing USACE ☐ Navy ☐			State Samples Collected In ☐ NY ☒ NJ ☐ PA ☐ NC			
Relinquished By / Company Name			Date	Time	Received By / Company Name			Date	Time	Reportable to PADEP? Yes ☐ No ☒			Sample Disposal Lab ☐ Special ☐			PWSID # <u>123456789</u>		
1 <u>[Signature]</u>			8-5-16	1300	2 <u>[Signature]</u>			8-5-16	1300									
3 <u>[Signature]</u>			8-5-16		4 <u>[Signature]</u>			8-5-16	1815									
5 <u>[Signature]</u>			8-5-16	2025	6 <u>[Signature]</u>			8-5-16	2025									
7					8													
9					10													

*G=Grab; C=Composite **Matrix - AL=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 1565 Jefferson Road, Building 300, Suite 360 Rochester, NY 14623 USA

uica 08/05/16 0122



Environmental

1565 Jefferson Road
Building 300, Suite 360
Rochester, NY 14623
(585)288-5380

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #	179 08052016 002	2 of 2
ALS Quote #:		

Client Name: Parsons Federal			Container Type		AN	AN	CG	AN	AN	CG				Receipt Information (completed by Receiving Lab)																								
Address: 100 High St. 4th Floor Boston, MA 02110			Container Size		4 oz	4 oz	40mL	4 oz	1L	40ml				Cooler Temp: <u>1</u> Therm ID: <u>352</u>																								
Contact: Cory Mahony			Preservative		4c	4c	4C & MECH	4c	HCL	HCL				No. of Coolers: _____ Y N Initial																								
Phone#: 617-449-1440			ANALYSES/METHOD REQUESTED <table border="1"> <tr> <td rowspan="4">*G or C</td> <td rowspan="4">*Matrix</td> <td rowspan="4">EPH (fractionated)</td> <td rowspan="4">SVOCs - Naphthalene & 2-methylnaphthalene (8270D)</td> <td rowspan="4">VOC (8260C)*TICs including 1,2-dichloroethane & 1,2-dibromoethane</td> <td rowspan="4">Lead (6020)</td> <td rowspan="4">SVOC (8270D) + TICs (groundwater)</td> <td rowspan="4">VOC (8260C)*TICs (groundwater)</td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4">AUTHORIZED TO RUN</td> <td rowspan="4">EXTRACT AND HOLD</td> </tr> <tr></tr> <tr></tr> <tr></tr> </table>											*G or C	*Matrix	EPH (fractionated)	SVOCs - Naphthalene & 2-methylnaphthalene (8270D)	VOC (8260C)*TICs including 1,2-dichloroethane & 1,2-dibromoethane	Lead (6020)	SVOC (8270D) + TICs (groundwater)	VOC (8260C)*TICs (groundwater)					AUTHORIZED TO RUN	EXTRACT AND HOLD	Custody Seals Present? ☒ Y ☐ N Initial <u>SES</u>										
*G or C	*Matrix	EPH (fractionated)																										SVOCs - Naphthalene & 2-methylnaphthalene (8270D)	VOC (8260C)*TICs including 1,2-dichloroethane & 1,2-dibromoethane	Lead (6020)	SVOC (8270D) + TICs (groundwater)	VOC (8260C)*TICs (groundwater)					AUTHORIZED TO RUN	EXTRACT AND HOLD
Project Name/ #: FTMM			COC/Labels Complete/Accurate? ☒ Y ☐ N			Received on Ice? ☒ Y ☐ N																																
Bill To: Parsons Federal			Correct Containers? ☒ Y ☐ N			Correct Sample Volumes? ☒ Y ☐ N																																
TAT ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.			Correct Preservation? ☒ Y ☐ N			Headspace/Volatiles? ☒ Y ☐ N																																
Date Required: _____ Approved? _____														Courier/Tracking #: _____																								
Email? ☒ -Y <u>carla.rodman@parsons.com</u>																																						
Fax? ☐ -Y No. _____																																						
Sample Description/Location (as it will appear on the lab report)			Sample Date		Time		Enter Number of Containers Per Sample or Field Results Below.											Sample/COC Comments																				
PAR-79-TB-DE052016			8/5/16		—		G TB								2		X																					
Project Comments: 748810 MDL Must Meet NDEP Soil Cleanup Criteria and/or Groundwater Quality Standards			LOGGED BY (signature): <u>[Signature]</u>			DATE: <u>8/5/16</u>			TIME: <u>1300</u>			Data Deliverables ☐ Standard ☒ CLP-like ☐ USACE			Special Processing USACE ☐ Navy ☐			State Samples Collected In ☐ NY ☒ NJ ☐ PA ☐ NC																				
			REVIEWED BY (signature): <u>[Signature]</u>			DATE: <u>8/5/16</u>			TIME: <u>1400</u>																													
Relinquished By / Company Name			Date		Time		Received By / Company Name			Date		Time		Reportable to PADEP? Yes ☐ PWSID # _____			Sample Disposal Lab ☐ Special ☐																					
1 <u>Frank Amore</u>			8-5-16		1500		2 <u>[Signature] R/S</u>			8-5-16		1500																										
3 <u>[Signature]</u>			8-5-16				4 <u>[Signature]</u>			8-5		1515		EDDS: Format Type- ERPIMS																								
5 <u>D. K...</u>			8-5		2029		6 <u>[Signature]</u>			8/5		2025																										
7							8																															
9							10																															

* G=Grab; C=Composite
** Matrix - A=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 1565 Jefferson Road, Building 300, Suite 360 Rochester, NY 14623 USA

una ostensione del

August 19, 2016

Ms. Carla Rodman
Parsons
301 Plainfield Rd
Suite 350
Syracuse, NY 13212

Certificate of Analysis

Project Name:	Ft. Monmouth GW Sampling	Workorder:	2165196
Purchase Order:		Workorder ID:	PQF018 Ft. Monmouth GW Samplin

Dear Ms. Rodman:

Enclosed are the analytical results for samples received by the laboratory on Friday, August 5, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Christina Grill , Ms. Maryanne Kosciwicz , Mr. Cory Mahony

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2165196001	PAR-79-MP-TMW01	Water	8/3/2016 14:30	8/5/2016 20:25	Collected by Client
2165196002	PAR-79-MP-TMW02	Water	8/3/2016 14:45	8/5/2016 20:25	Collected by Client
2165196003	PAR-79-EB-08032016	Water	8/3/2016 15:40	8/5/2016 20:25	Collected by Client
2165196004	PAR-79-TB-08032016	Water	8/3/2016 00:00	8/5/2016 20:25	Collected by Client
2165196005	PAR-79-MP-TMW03	Water	8/4/2016 10:10	8/5/2016 20:25	Collected by Client
2165196006	PAR-79-MP-TMW04	Water	8/4/2016 10:35	8/5/2016 20:25	Collected by Client
2165196007	PAR-79-MP-TMW05	Water	8/4/2016 10:55	8/5/2016 20:25	Collected by Client
2165196008	PAR-79-MP-TMW06	Water	8/4/2016 11:20	8/5/2016 20:25	Collected by Client
2165196009	PAR-79-MP-TMW07	Water	8/4/2016 11:50	8/5/2016 20:25	Collected by Client
2165196010	PAR-79-MP-TMW08	Water	8/4/2016 11:45	8/5/2016 20:25	Collected by Client
2165196011	PAR-79-MP-TMW09	Water	8/4/2016 13:15	8/5/2016 20:25	Collected by Client
2165196012	PAR-79-EB-08042016	Water	8/4/2016 15:00	8/5/2016 20:25	Collected by Client
2165196013	PAR-79-490-TMW03	Water	8/4/2016 14:05	8/5/2016 20:25	Collected by Client

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

PROJECT SUMMARY

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Workorder Comments

ALS Middletown does not currently hold DOD accreditation for Pentachlorophenol by 8270 SIM or Benzidine by 8270.

Sample Comments

Lab ID: 2165196002 **Sample ID:** PAR-79-MP-TMW02 **Sample Type:** SAMPLE

Due to the excessive amount of sediment in this volatile sample, the liquid was decanted into a separate vial and analyzed. This may have introduced headspace.

Lab ID: 2165196006 **Sample ID:** PAR-79-MP-TMW04 **Sample Type:** SAMPLE

Due to the excessive amount of sediment in this volatile sample, the liquid was decanted into a separate vial and analyzed. This may have introduced headspace.

Lab ID: 2165196013 **Sample ID:** PAR-79-490-TMW03 **Sample Type:** SAMPLE

Due to the excessive amount of sediment in this volatile sample, the liquid was decanted into a separate vial and analyzed. This may have introduced headspace.
The PAH selective monitoring analysis for low level PAH determinations could not be performed on this sample due to matrix issues.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196001**

Date Collected: 8/3/2016 14:30

Matrix: Water

Sample ID: **PAR-79-MP-TMW01**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	5.5		ug/L	5.0	3.8	1.6	SW846 8260C		8/8/16 16:38	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/8/16 16:38	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/8/16 16:38	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/8/16 16:38	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/8/16 16:38	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196001**
Sample ID: **PAR-79-MP-TMW01**

Date Collected: 8/3/2016 14:30 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Hexachlorobutadiene	0.75U	U	ug/L	1.0	0.75	0.43	SW846 8260C		8/8/16 16:38	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/8/16 16:38	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/8/16 16:38	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/8/16 16:38	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 16:38	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/8/16 16:38	DD	D
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	108		%	81 - 118			SW846 8260C		8/8/16 16:38	DD	D
4-Bromofluorobenzene (S)	114		%	85 - 114			SW846 8260C		8/8/16 16:38	DD	D
Dibromofluoromethane (S)	99.3		%	80 - 119			SW846 8260C		8/8/16 16:38	DD	D
Toluene-d8 (S)	99.6		%	89 - 112			SW846 8260C		8/8/16 16:38	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected . Lib Search VOC 8/8/16 16:38 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196001**
Sample ID: **PAR-79-MP-TMW01**

Date Collected: 8/3/2016 14:30 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	0.96U	U	ug/L	1.9	0.96	0.14	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Acenaphthylene	0.96U	U	ug/L	1.9	0.96	0.18	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Anthracene	0.96U	U	ug/L	1.9	0.96	0.14	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Benzidine	7.7U	U	ug/L	7.7	7.7	3.0	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Benzo(a)anthracene	0.23J	J	ug/L	1.9	0.96	0.12	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Benzo(a)pyrene	0.96U	U	ug/L	1.9	0.96	0.21	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Benzo(b)fluoranthene	0.20J	J	ug/L	1.9	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Benzo(g,h,i)perylene	0.96U	U	ug/L	1.9	0.96	0.21	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Benzo(k)fluoranthene	0.96U	U	ug/L	1.9	0.96	0.18	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Benzyl Alcohol	1.9U	U	ug/L	7.7	1.9	0.22	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
4-Bromophenyl-phenylether	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Butylbenzylphthalate	0.96U	U	ug/L	7.7	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Carbazole	0.96U	U	ug/L	7.7	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
4-Chloro-3-methylphenol	0.96U	U	ug/L	7.7	0.96	0.18	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
4-Chloroaniline	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
bis(2-Chloroethoxy)methane	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
bis(2-Chloroethyl)ether	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
bis(2-Chloroisopropyl)ether	0.96U	U	ug/L	7.7	0.96	0.27	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
2-Chloronaphthalene	0.96U	U	ug/L	7.7	0.96	0.17	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
2-Chlorophenol	1.9U	U	ug/L	7.7	1.9	0.32	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
4-Chlorophenyl-phenylether	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Chrysene	0.19J	J	ug/L	1.9	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
mp-Cresol	0.96U	U	ug/L	7.7	0.96	0.14	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
o-Cresol	0.96U	U	ug/L	7.7	0.96	0.24	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Di-n-Butylphthalate	0.14J	J	ug/L	7.7	0.96	0.13	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Di-n-Octylphthalate	0.96U	U	ug/L	7.7	0.96	0.096	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Dibenzo(a,h)anthracene	0.96U	U	ug/L	1.9	0.96	0.20	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Dibenzofuran	0.96U	U	ug/L	7.7	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
1,2-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.19	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
1,3-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
1,4-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.17	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
3,3-Dichlorobenzidine	2.9U	U	ug/L	15.3	2.9	0.46	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
2,4-Dichlorophenol	0.96U	U	ug/L	7.7	0.96	0.31	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Diethylphthalate	0.18J	J	ug/L	7.7	0.96	0.17	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
2,4-Dimethylphenol	4.8U	U	ug/L	7.7	4.8	0.20	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
Dimethylphthalate	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
2,4-Dinitrophenol	7.7U	U	ug/L	15.3	7.7	1.7	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B
2,4-Dinitrotoluene	0.96U	U	ug/L	7.7	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 19:20	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196001**
Sample ID: **PAR-79-MP-TMW01**

Date Collected: 8/3/2016 14:30 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By		Analyzed	By	Cntr
2,6-Dinitrotoluene	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
1,2-Diphenylhydrazine	0.96U	U	ug/L	7.7	0.96	0.25	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
bis(2-Ethylhexyl)phthalate	0.96U	U	ug/L	7.7	0.96	0.21	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Fluoranthene	0.29J	J	ug/L	1.9	0.96	0.16	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Fluorene	0.96U	U	ug/L	1.9	0.96	0.19	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Hexachlorobenzene	0.96U	U	ug/L	7.7	0.96	0.22	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Hexachlorobutadiene	0.96U	U	ug/L	7.7	0.96	0.18	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Hexachlorocyclopentadiene	1.9U	U	ug/L	7.7	1.9	0.16	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Hexachloroethane	0.96U	U	ug/L	7.7	0.96	0.29	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Indeno(1,2,3-cd)pyrene	0.11J	J	ug/L	1.9	0.96	0.096	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Isophorone	0.96U	U	ug/L	7.7	0.96	0.14	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
2-Methyl-4,6-dinitrophenol	4.8U	U	ug/L	7.7	4.8	0.32	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
2-Methylnaphthalene	0.96U	U	ug/L	1.9	0.96	0.15	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Naphthalene	0.96U	U	ug/L	1.9	0.96	0.11	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
2-Nitroaniline	0.96U	U	ug/L	7.7	0.96	0.19	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
3-Nitroaniline	1.9U	U	ug/L	7.7	1.9	0.17	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
4-Nitroaniline	0.96U	U	ug/L	7.7	0.96	0.39	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Nitrobenzene	1.9U	U	ug/L	7.7	1.9	0.27	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
2-Nitrophenol	1.9U	U	ug/L	7.7	1.9	0.43	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
4-Nitrophenol	4.8U	U	ug/L	7.7	4.8	1.0	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
N-Nitrosodimethylamine	1.9U	U	ug/L	7.7	1.9	0.61	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
N-Nitroso-di-n-propylamine	0.96U	U	ug/L	7.7	0.96	0.23	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
N-Nitrosodiphenylamine	1.9U	U	ug/L	7.7	1.9	0.17	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Pentachlorophenol	7.7U	U	ug/L	15.3	7.7	1.0	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Phenanthrene	0.23J	J	ug/L	1.9	0.96	0.12	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Phenol	0.96U	U	ug/L	7.7	0.96	0.22	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Pyrene	0.29J	J	ug/L	1.9	0.96	0.15	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
1,2,4-Trichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.12	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
2,4,5-Trichlorophenol	2.9U	U	ug/L	7.7	2.9	0.53	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
2,4,6-Trichlorophenol	0.96U	U	ug/L	7.7	0.96	0.55	SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	70.4		%	47 - 128			SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
2-Fluorobiphenyl (S)	55		%	52 - 118			SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
2-Fluorophenol (S)	42.3		%	20 - 87			SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Nitrobenzene-d5 (S)	60.9		%	27 - 139			SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Phenol-d5 (S)	29.3		%	10 - 81			SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Terphenyl-d14 (S)	27.6	3	%	46 - 133			SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196001**
Sample ID: **PAR-79-MP-TMW01**

Date Collected: 8/3/2016 14:30 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	70.4		%	43 - 140			SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
2-Fluorobiphenyl (S)	55		%	44 - 119			SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
2-Fluorophenol (S)	42.3		%	19 - 119			SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Nitrobenzene-d5 (S)	60.9		%	44 - 120			SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Phenol-d5 (S)	29.3		%	13 - 49			SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Terphenyl-d14 (S)	27.6	2	%	50 - 134			SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Library Search - SemiVolatiles												
Unknown	16.9	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Octadecanoic acid	11.7	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Unknown	4.0	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Tetratetracontane	5.4	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Unknown	30.3	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Unknown	42.9	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Eicosane	8.0	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Hentriacontane	7.0	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Unknown	8.4	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Unknown	127	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Unknown	124	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
Unknown	28.8	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 19:20	CGS	B
SEMIVOLATILE SIM												
Acenaphthene	0.012J	J	ug/L	0.048	0.038	0.011	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
Acenaphthylene	0.022J	J	ug/L	0.048	0.038	0.011	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
Anthracene	0.029J	J	ug/L	0.048	0.038	0.016	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
Benzo(a)anthracene	0.12		ug/L	0.048	0.038	0.016	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
Benzo(a)pyrene	0.13		ug/L	0.048	0.038	0.019	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
Benzo(b)fluoranthene	0.19		ug/L	0.048	0.038	0.019	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
Benzo(g,h,i)perylene	0.081	5	ug/L	0.048	0.038	0.036	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
Benzo(k)fluoranthene	0.070		ug/L	0.048	0.038	0.024	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
Chrysene	0.17		ug/L	0.048	0.038	0.016	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
Dibenzo(a,h)anthracene	0.038U	U	ug/L	0.048	0.038	0.022	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
2,4-Dinitrotoluene	0.038U	U	ug/L	0.048	0.038	0.020	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
2,6-Dinitrotoluene	0.038U	U	ug/L	0.048	0.038	0.030	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
Fluoranthene	0.26		ug/L	0.048	0.038	0.017	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
Fluorene	0.033J	J	ug/L	0.048	0.038	0.014	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
Indeno(1,2,3-cd)pyrene	0.085		ug/L	0.048	0.048	0.039	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B
Naphthalene	0.038U	U	ug/L	0.048	0.038	0.035	8270 SIM	8/9/16	JTH	8/11/16 15:53	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

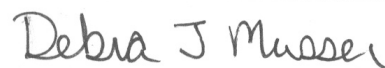
ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196001**
Sample ID: **PAR-79-MP-TMW01**

Date Collected: 8/3/2016 14:30 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Pentachlorophenol	0.96U	U	ug/L	0.96	0.96	0.17	8270 SIM	8/9/16 JTH	8/11/16 15:53	CGS	B
Phenanthrene	0.17		ug/L	0.048	0.038	0.019	8270 SIM	8/9/16 JTH	8/11/16 15:53	CGS	B
Pyrene	0.23		ug/L	0.048	0.038	0.014	8270 SIM	8/9/16 JTH	8/11/16 15:53	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	55		%	29 - 112			8270 SIM	8/9/16 JTH	8/11/16 15:53	CGS	B
Fluoranthene-d10 (S)	34.1	4	%	45 - 130			8270 SIM	8/9/16 JTH	8/11/16 15:53	CGS	B



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196002**

Date Collected: 8/3/2016 14:45

Matrix: Water

Sample ID: **PAR-79-MP-TMW02**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	6.5		ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 17:18	DD	D
Benzene	1.7		ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 17:18	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 17:18	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 17:18	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
tert-Butylbenzene	0.46J	J	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
sec-Butylbenzene	3.9		ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 17:18	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196002**

Date Collected: 8/3/2016 14:45

Matrix: Water

Sample ID: **PAR-79-MP-TMW02**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Hexachlorobutadiene	0.75U	U10	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 17:18	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 17:18	DD	D
Isopropylbenzene	1.3		ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
p-Isopropyltoluene	2.2		ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 17:18	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Naphthalene	96.6		ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 17:18	DD	D
1,2,4-Trimethylbenzene	4.7		ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
1,3,5-Trimethylbenzene	10.9		ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
o-Xylene	1.2		ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:18	DD	D
mp-Xylene	1.0J	J	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 17:18	DD	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	108		%	81 - 118			SW846 8260C		8/9/16 17:18	DD	D
4-Bromofluorobenzene (S)	109		%	85 - 114			SW846 8260C		8/9/16 17:18	DD	D
Dibromofluoromethane (S)	97.9		%	80 - 119			SW846 8260C		8/9/16 17:18	DD	D
Toluene-d8 (S)	98.1		%	89 - 112			SW846 8260C		8/9/16 17:18	DD	D
Library Search - Volatiles											
1,5-HEXADIENE, 1,6-DIPHENYL-	6.8	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196002**
Sample ID: **PAR-79-MP-TMW02**

Date Collected: 8/3/2016 14:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Benzene, 1-ethyl-3,5-dimethyl-	7.6	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D
Benzene, 1-ethyl-2,3-dimethyl-	7.1	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D
Benzene, (2-methyl-1-propenyl)	16.8	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D
Benzene, 1-methyl-2-(1-methyle	6.8	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D
Benzene, 1,2,3,5-tetramethyl-	12.6	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D
Benzene, 2-ethenyl-1,3-dimethy	8.9	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D
Benzene, 1-methyl-2-(1-methyle	19.6	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D
Naphthalene, 1,2,3,4-tetrahydr	6.6	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D
1H-Indene, 2,3-dihydro-1,2-dim	5.2	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D
1H-Indene, 2,3-dihydro-4,7-dim	4.4	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D
1H-Indene, 2,3-dihydro-1,6-dim	11.8	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D
Naphthalene, 1,2,3,4-tetrahydr	5.3	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D
Naphthalene, 1,2,3,4-tetrahydr	8.8	J N	ug/L				SW846 8260C		8/9/16 17:18	DD	D
SEMIVOLATILES											
Acenaphthene	0.96U	U	ug/L	1.9	0.96	0.14	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Acenaphthylene	0.96U	U	ug/L	1.9	0.96	0.18	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Anthracene	0.39J	J	ug/L	1.9	0.96	0.14	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Benzidine	28.7U	U	ug/L	28.7	28.7	3.0	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Benzidine	7.7U	U	ug/L	7.7	7.7	3.0	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Benzo(a)anthracene	0.27J	J	ug/L	1.9	0.96	0.12	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Benzo(a)pyrene	0.96U	U	ug/L	1.9	0.96	0.21	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Benzo(b)fluoranthene	0.20J	J	ug/L	1.9	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Benzo(g,h,i)perylene	0.96U	U	ug/L	1.9	0.96	0.21	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Benzo(k)fluoranthene	0.96U	U	ug/L	1.9	0.96	0.18	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Benzyl Alcohol	1.9U	U	ug/L	7.7	1.9	0.22	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
4-Bromophenyl-phenylether	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Butylbenzylphthalate	0.15J	J	ug/L	7.7	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Carbazole	1.2J	J	ug/L	7.7	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
4-Chloro-3-methylphenol	0.96U	U	ug/L	7.7	0.96	0.18	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
4-Chloroaniline	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196002**
Sample ID: **PAR-79-MP-TMW02**

Date Collected: 8/3/2016 14:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
bis(2-Chloroethyl)ether	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
bis(2-Chloroisopropyl)ether	0.96U	U	ug/L	7.7	0.96	0.27	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2-Chloronaphthalene	0.96U	U	ug/L	7.7	0.96	0.17	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2-Chlorophenol	1.9U	U	ug/L	7.7	1.9	0.32	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
4-Chlorophenyl-phenylether	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Chrysene	0.20J	J	ug/L	1.9	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
mp-Cresol	0.96U	U	ug/L	7.7	0.96	0.14	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
o-Cresol	0.96U	U	ug/L	7.7	0.96	0.24	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Di-n-Butylphthalate	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Di-n-Octylphthalate	0.099J	J	ug/L	7.7	0.96	0.096	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Dibenzo(a,h)anthracene	0.96U	U	ug/L	1.9	0.96	0.20	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Dibenzofuran	2.5J	J	ug/L	7.7	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
1,2-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.19	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
1,3-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
1,4-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.17	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
3,3-Dichlorobenzidine	2.9U	U	ug/L	15.3	2.9	0.46	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2,4-Dichlorophenol	0.96U	U	ug/L	7.7	0.96	0.31	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Diethylphthalate	0.96U	U	ug/L	7.7	0.96	0.17	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2,4-Dimethylphenol	4.8U	U	ug/L	7.7	4.8	0.20	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Dimethylphthalate	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2,4-Dinitrophenol	7.7U	U	ug/L	15.3	7.7	1.7	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2,4-Dinitrotoluene	0.96U	U	ug/L	7.7	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2,6-Dinitrotoluene	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
1,2-Diphenylhydrazine	0.96U	U	ug/L	7.7	0.96	0.25	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
bis(2-Ethylhexyl)phthalate	0.96U	U	ug/L	7.7	0.96	0.21	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Fluoranthene	0.81J	J	ug/L	1.9	0.96	0.16	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Fluorene	3.2		ug/L	1.9	0.96	0.19	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Hexachlorobenzene	0.96U	U	ug/L	7.7	0.96	0.22	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Hexachlorobutadiene	0.96U	U	ug/L	7.7	0.96	0.18	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Hexachlorocyclopentadiene	1.9U	U	ug/L	7.7	1.9	0.16	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Hexachloroethane	0.96U	U	ug/L	7.7	0.96	0.29	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Indeno(1,2,3-cd)pyrene	0.11J	J	ug/L	1.9	0.96	0.096	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Isophorone	0.96U	U	ug/L	7.7	0.96	0.14	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2-Methyl-4,6-dinitrophenol	4.8U	U	ug/L	7.7	4.8	0.32	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2-Methylnaphthalene	30.6		ug/L	1.9	0.96	0.15	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Naphthalene	23.8		ug/L	1.9	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2-Nitroaniline	0.96U	U	ug/L	7.7	0.96	0.19	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196002**

Date Collected: 8/3/2016 14:45

Matrix: Water

Sample ID: **PAR-79-MP-TMW02**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
3-Nitroaniline	1.9U	U	ug/L	7.7	1.9	0.17	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
4-Nitroaniline	0.96U	U	ug/L	7.7	0.96	0.39	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Nitrobenzene	1.9U	U	ug/L	7.7	1.9	0.27	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2-Nitrophenol	1.9U	U	ug/L	7.7	1.9	0.43	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
4-Nitrophenol	4.8U	U	ug/L	7.7	4.8	1.0	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
N-Nitrosodimethylamine	1.9U	U	ug/L	7.7	1.9	0.61	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
N-Nitroso-di-n-propylamine	0.96U	U	ug/L	7.7	0.96	0.23	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
N-Nitrosodiphenylamine	1.9U	U	ug/L	7.7	1.9	0.17	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Pentachlorophenol	7.7U	U	ug/L	15.3	7.7	1.0	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Phenanthrene	5.8		ug/L	1.9	0.96	0.12	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Phenol	0.96U	U	ug/L	7.7	0.96	0.22	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Pyrene	0.69J	J	ug/L	1.9	0.96	0.15	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
1,2,4-Trichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.12	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2,4,5-Trichlorophenol	2.9U	U	ug/L	7.7	2.9	0.53	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2,4,6-Trichlorophenol	0.96U	U	ug/L	7.7	0.96	0.55	SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	35.6	5	%	47 - 128			SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2-Fluorobiphenyl (S)	31.1	4	%	52 - 118			SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2-Fluorophenol (S)	26.2		%	20 - 87			SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Nitrobenzene-d5 (S)	46.3		%	27 - 139			SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Phenol-d5 (S)	19.6		%	10 - 81			SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Terphenyl-d14 (S)	20.6	6	%	46 - 133			SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	35.6	2	%	43 - 140			SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2-Fluorobiphenyl (S)	31.1	1	%	44 - 119			SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
2-Fluorophenol (S)	26.2		%	19 - 119			SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Nitrobenzene-d5 (S)	46.3		%	44 - 120			SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Phenol-d5 (S)	19.6		%	13 - 49			SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Terphenyl-d14 (S)	20.6	3	%	50 - 134			SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Library Search - SemiVolatiles											
Unknown	80.8	J	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Naphthalene, 2,6-dimethyl-	169	J N	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Naphthalene, 1,3-dimethyl-	153	J N	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Naphthalene, 1,7-dimethyl-	114	J N	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Undecane	190	J N	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Pentadecane	205	J N	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Naphthalene, 1,4,6-trimethyl-	91.1	J N	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196002**
Sample ID: **PAR-79-MP-TMW02**

Date Collected: 8/3/2016 14:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Naphthalene, 1,6,7-trimethyl-	90.2	J N	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Naphthalene, 2,3,6-trimethyl-	74.8	J N	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Tetradecane	225	J N	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Unknown	80.8	J	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Undecane, 4,6-dimethyl-	129	J N	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Dodecane, 2-methyl-6-propyl-	24.9	J N	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Octadecanoic acid	28.3	J N	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
Unknown	102	J	ug/L				SW846 8270D	8/9/16 JTH	8/10/16 19:45	CGS	B
SEMIVOLATILE SIM											
Acenaphthene	0.97		ug/L	0.048	0.038	0.011	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Acenaphthylene	0.038U	U	ug/L	0.048	0.038	0.011	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Anthracene	0.33		ug/L	0.048	0.038	0.016	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Benzo(a)anthracene	0.14		ug/L	0.048	0.038	0.016	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Benzo(a)pyrene	0.14		ug/L	0.048	0.038	0.019	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Benzo(b)fluoranthene	0.18		ug/L	0.048	0.038	0.019	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Benzo(g,h,i)perylene	0.082	9	ug/L	0.048	0.038	0.036	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Benzo(k)fluoranthene	0.078		ug/L	0.048	0.038	0.024	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Chrysene	0.16		ug/L	0.048	0.038	0.016	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Dibenzo(a,h)anthracene	0.043J	J	ug/L	0.048	0.038	0.022	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
2,4-Dinitrotoluene	0.038U	U	ug/L	0.048	0.038	0.020	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
2,6-Dinitrotoluene	0.038U	U	ug/L	0.048	0.038	0.030	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Fluoranthene	0.64		ug/L	0.048	0.038	0.017	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Fluorene	2.0		ug/L	0.048	0.038	0.014	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Indeno(1,2,3-cd)pyrene	0.084		ug/L	0.048	0.048	0.039	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Naphthalene	20.8	E	ug/L	0.048	0.038	0.035	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Pentachlorophenol	0.96U	U	ug/L	0.96	0.96	0.17	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Phenanthrene	4.6	E	ug/L	0.048	0.038	0.019	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Pyrene	0.52		ug/L	0.048	0.038	0.014	8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	28.7	7	%	29 - 112			8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B
Fluoranthene-d10 (S)	26.5	8	%	45 - 130			8270 SIM	8/9/16 JTH	8/11/16 16:19	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196002**

Date Collected: 8/3/2016 14:45

Matrix: Water

Sample ID: **PAR-79-MP-TMW02**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196003**

Date Collected: 8/3/2016 15:40

Matrix: Water

Sample ID: **PAR-79-EB-08032016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	3.6J	J	ug/L	5.0	3.8	1.6	SW846 8260C		8/8/16 14:04	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/8/16 14:04	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/8/16 14:04	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/8/16 14:04	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/8/16 14:04	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196003**

Date Collected: 8/3/2016 15:40

Matrix: Water

Sample ID: **PAR-79-EB-08032016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Hexachlorobutadiene	0.75U	U	ug/L	1.0	0.75	0.43	SW846 8260C		8/8/16 14:04	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/8/16 14:04	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/8/16 14:04	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/8/16 14:04	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 14:04	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/8/16 14:04	DD	D
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	107		%	81 - 118			SW846 8260C		8/8/16 14:04	DD	D
4-Bromofluorobenzene (S)	113		%	85 - 114			SW846 8260C		8/8/16 14:04	DD	D
Dibromofluoromethane (S)	99.3		%	80 - 119			SW846 8260C		8/8/16 14:04	DD	D
Toluene-d8 (S)	98.8		%	89 - 112			SW846 8260C		8/8/16 14:04	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected

Lib Search VOC

8/8/16 14:04 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196003**

Date Collected: 8/3/2016 15:40

Matrix: Water

Sample ID: **PAR-79-EB-08032016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	0.96U	U	ug/L	1.9	0.96	0.14	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Acenaphthylene	0.96U	U	ug/L	1.9	0.96	0.18	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Anthracene	0.96U	U	ug/L	1.9	0.96	0.14	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Benzidine	28.8U	U	ug/L	28.8	28.8	3.0	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Benzidine	7.7U	U	ug/L	7.7	7.7	3.0	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Benzo(a)anthracene	0.96U	U	ug/L	1.9	0.96	0.13	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Benzo(a)pyrene	0.96U	U	ug/L	1.9	0.96	0.21	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Benzo(b)fluoranthene	0.96U	U	ug/L	1.9	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Benzo(g,h,i)perylene	0.96U	U	ug/L	1.9	0.96	0.21	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Benzo(k)fluoranthene	0.96U	U	ug/L	1.9	0.96	0.18	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Benzyl Alcohol	1.9U	U	ug/L	7.7	1.9	0.22	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
4-Bromophenyl-phenylether	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Butylbenzylphthalate	0.96U	U	ug/L	7.7	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Carbazole	0.96U	U	ug/L	7.7	0.96	0.12	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
4-Chloro-3-methylphenol	0.96U	U	ug/L	7.7	0.96	0.18	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
4-Chloroaniline	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
bis(2-Chloroethoxy)methane	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
bis(2-Chloroethyl)ether	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
bis(2-Chloroisopropyl)ether	0.96U	U	ug/L	7.7	0.96	0.27	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
2-Chloronaphthalene	0.96U	U	ug/L	7.7	0.96	0.17	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
2-Chlorophenol	1.9U	U	ug/L	7.7	1.9	0.32	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
4-Chlorophenyl-phenylether	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Chrysene	0.96U	U	ug/L	1.9	0.96	0.12	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
mp-Cresol	0.96U	U	ug/L	7.7	0.96	0.14	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
o-Cresol	0.96U	U	ug/L	7.7	0.96	0.24	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Di-n-Butylphthalate	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Di-n-Octylphthalate	0.96U	U	ug/L	7.7	0.96	0.096	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Dibenzo(a,h)anthracene	0.96U	U	ug/L	1.9	0.96	0.20	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Dibenzofuran	0.96U	U	ug/L	7.7	0.96	0.11	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
1,2-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.19	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
1,3-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.16	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
1,4-Dichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.17	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
3,3-Dichlorobenzidine	2.9U	U	ug/L	15.4	2.9	0.46	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
2,4-Dichlorophenol	0.96U	U	ug/L	7.7	0.96	0.31	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Diethylphthalate	0.96U	U	ug/L	7.7	0.96	0.17	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
2,4-Dimethylphenol	4.8U	U	ug/L	7.7	4.8	0.20	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
Dimethylphthalate	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B
2,4-Dinitrophenol	7.7U	U	ug/L	15.4	7.7	1.7	SW846 8270D	8/9/16 JTH	8/10/16 20:10	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196003**

Date Collected: 8/3/2016 15:40

Matrix: Water

Sample ID: **PAR-79-EB-08032016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By		Analyzed	By	Cntr
2,4-Dinitrotoluene	0.96U	U	ug/L	7.7	0.96	0.12	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
2,6-Dinitrotoluene	0.96U	U	ug/L	7.7	0.96	0.20	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
1,2-Diphenylhydrazine	0.96U	U	ug/L	7.7	0.96	0.25	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
bis(2-Ethylhexyl)phthalate	0.96U	U	ug/L	7.7	0.96	0.21	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Fluoranthene	0.96U	U	ug/L	1.9	0.96	0.16	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Fluorene	0.96U	U	ug/L	1.9	0.96	0.19	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Hexachlorobenzene	0.96U	U	ug/L	7.7	0.96	0.22	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Hexachlorobutadiene	0.96U	U	ug/L	7.7	0.96	0.18	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Hexachlorocyclopentadiene	1.9U	U	ug/L	7.7	1.9	0.16	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Hexachloroethane	0.96U	U	ug/L	7.7	0.96	0.29	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Indeno(1,2,3-cd)pyrene	0.96U	U	ug/L	1.9	0.96	0.096	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Isophorone	0.96U	U	ug/L	7.7	0.96	0.14	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
2-Methyl-4,6-dinitrophenol	4.8U	U	ug/L	7.7	4.8	0.32	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
2-Methylnaphthalene	0.96U	U	ug/L	1.9	0.96	0.15	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Naphthalene	0.96U	U	ug/L	1.9	0.96	0.12	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
2-Nitroaniline	0.96U	U	ug/L	7.7	0.96	0.19	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
3-Nitroaniline	1.9U	U	ug/L	7.7	1.9	0.17	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
4-Nitroaniline	0.96U	U	ug/L	7.7	0.96	0.39	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Nitrobenzene	1.9U	U	ug/L	7.7	1.9	0.27	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
2-Nitrophenol	1.9U	U	ug/L	7.7	1.9	0.43	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
4-Nitrophenol	4.8U	U	ug/L	7.7	4.8	1.0	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
N-Nitrosodimethylamine	1.9U	U	ug/L	7.7	1.9	0.62	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
N-Nitroso-di-n-propylamine	0.96U	U	ug/L	7.7	0.96	0.23	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
N-Nitrosodiphenylamine	1.9U	U	ug/L	7.7	1.9	0.17	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Pentachlorophenol	7.7U	U	ug/L	15.4	7.7	1.0	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Phenanthrene	0.96U	U	ug/L	1.9	0.96	0.13	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Phenol	0.96U	U	ug/L	7.7	0.96	0.22	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Pyrene	0.96U	U	ug/L	1.9	0.96	0.15	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
1,2,4-Trichlorobenzene	0.96U	U	ug/L	7.7	0.96	0.13	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
2,4,5-Trichlorophenol	2.9U	U	ug/L	7.7	2.9	0.53	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
2,4,6-Trichlorophenol	0.96U	U	ug/L	7.7	0.96	0.55	SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	73.3		%	47 - 128			SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
2-Fluorobiphenyl (S)	68.9		%	52 - 118			SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
2-Fluorophenol (S)	44		%	20 - 87			SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Nitrobenzene-d5 (S)	68.8		%	27 - 139			SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Phenol-d5 (S)	27.8		%	10 - 81			SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Terphenyl-d14 (S)	75.1		%	46 - 133			SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196003**

Date Collected: 8/3/2016 15:40

Matrix: Water

Sample ID: **PAR-79-EB-08032016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	73.3		%	43 - 140			SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
2-Fluorobiphenyl (S)	68.9		%	44 - 119			SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
2-Fluorophenol (S)	44		%	19 - 119			SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Nitrobenzene-d5 (S)	68.8		%	44 - 120			SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Phenol-d5 (S)	27.8		%	13 - 49			SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Terphenyl-d14 (S)	75.1		%	50 - 134			SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
Library Search - SemiVolatiles												
Unknown	77.8	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 20:10	CGS	B
SEMIVOLATILE SIM												
Acenaphthene	0.038U	U	ug/L	0.048	0.038	0.011	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Acenaphthylene	0.038U	U	ug/L	0.048	0.038	0.011	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Anthracene	0.038U	U	ug/L	0.048	0.038	0.016	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Benzo(a)anthracene	0.038U	U	ug/L	0.048	0.038	0.016	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Benzo(a)pyrene	0.038U	U	ug/L	0.048	0.038	0.019	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Benzo(b)fluoranthene	0.038U	U	ug/L	0.048	0.038	0.019	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Benzo(g,h,i)perylene	0.038U	U1	ug/L	0.048	0.038	0.037	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Benzo(k)fluoranthene	0.038U	U	ug/L	0.048	0.038	0.024	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Chrysene	0.038U	U	ug/L	0.048	0.038	0.016	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Dibenzo(a,h)anthracene	0.038U	U	ug/L	0.048	0.038	0.022	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
2,4-Dinitrotoluene	0.038U	U	ug/L	0.048	0.038	0.020	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
2,6-Dinitrotoluene	0.038U	U	ug/L	0.048	0.038	0.030	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Fluoranthene	0.038U	U	ug/L	0.048	0.038	0.017	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Fluorene	0.038U	U	ug/L	0.048	0.038	0.014	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Indeno(1,2,3-cd)pyrene	0.048U	U	ug/L	0.048	0.048	0.039	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Naphthalene	0.038U	U	ug/L	0.048	0.038	0.036	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Pentachlorophenol	0.96U	U	ug/L	0.96	0.96	0.17	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Phenanthrene	0.026J	J	ug/L	0.048	0.038	0.019	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Pyrene	0.038U	U	ug/L	0.048	0.038	0.014	8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2-Methylnapthalene-d10 (S)	66.8		%	29 - 112			8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B
Fluoranthene-d10 (S)	73.5		%	45 - 130			8270 SIM	8/9/16	JTH	8/11/16 16:45	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196003**

Date Collected: 8/3/2016 15:40

Matrix: Water

Sample ID: **PAR-79-EB-08032016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196004** Date Collected: 8/3/2016 00:00 Matrix: Water
Sample ID: **PAR-79-TB-08032016** Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	13.3		ug/L	5.0	3.8	1.6	SW846 8260C		8/8/16 13:42	DD	B
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/8/16 13:42	DD	B
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
2-Butanone	2.8J	J	ug/L	5.0	3.8	1.6	SW846 8260C		8/8/16 13:42	DD	B
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/8/16 13:42	DD	B
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/8/16 13:42	DD	B
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196004**

Date Collected: 8/3/2016 00:00

Matrix: Water

Sample ID: **PAR-79-TB-08032016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Hexachlorobutadiene	0.75U	U	ug/L	1.0	0.75	0.43	SW846 8260C		8/8/16 13:42	DD	B
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/8/16 13:42	DD	B
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/8/16 13:42	DD	B
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/8/16 13:42	DD	B
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/8/16 13:42	DD	B
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/8/16 13:42	DD	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104		%	81 - 118			SW846 8260C		8/8/16 13:42	DD	B
4-Bromofluorobenzene (S)	112		%	85 - 114			SW846 8260C		8/8/16 13:42	DD	B
Dibromofluoromethane (S)	95.3		%	80 - 119			SW846 8260C		8/8/16 13:42	DD	B
Toluene-d8 (S)	98.1		%	89 - 112			SW846 8260C		8/8/16 13:42	DD	B
LIBRARY SEARCH - VOLATILES											
No TIC's Detected	.						Lib Search VOC		8/8/16 13:42	JAH	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196004**

Date Collected: 8/3/2016 00:00

Matrix: Water

Sample ID: **PAR-79-TB-08032016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator**ALS Environmental Laboratory Locations Across North America****Canada:** Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196005**

Date Collected: 8/4/2016 10:10

Matrix: Water

Sample ID: **PAR-79-MP-TMW03**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	6.0		ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 12:10	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 12:10	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 12:10	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 12:10	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 12:10	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196005**

Date Collected: 8/4/2016 10:10

Matrix: Water

Sample ID: **PAR-79-MP-TMW03**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Hexachlorobutadiene	0.75U	U5	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 12:10	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 12:10	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 12:10	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 12:10	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:10	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 12:10	DD	D
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	105		%	81 - 118			SW846 8260C		8/9/16 12:10	DD	D
4-Bromofluorobenzene (S)	113		%	85 - 114			SW846 8260C		8/9/16 12:10	DD	D
Dibromofluoromethane (S)	97		%	80 - 119			SW846 8260C		8/9/16 12:10	DD	D
Toluene-d8 (S)	98.4		%	89 - 112			SW846 8260C		8/9/16 12:10	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected

Lib Search VOC

8/9/16 12:10 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196005**

Date Collected: 8/4/2016 10:10

Matrix: Water

Sample ID: **PAR-79-MP-TMW03**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	0.99U	U	ug/L	2.0	0.99	0.15	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Acenaphthylene	0.99U	U	ug/L	2.0	0.99	0.19	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Anthracene	0.99U	U	ug/L	2.0	0.99	0.15	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Benzidine	7.9U	U	ug/L	7.9	7.9	3.1	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Benzidine	29.7U	U	ug/L	29.7	29.7	3.1	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Benzo(a)anthracene	0.99U	U	ug/L	2.0	0.99	0.13	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Benzo(a)pyrene	0.99U	U	ug/L	2.0	0.99	0.22	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Benzo(b)fluoranthene	0.99U	U	ug/L	2.0	0.99	0.11	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Benzo(g,h,i)perylene	0.99U	U	ug/L	2.0	0.99	0.22	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Benzo(k)fluoranthene	0.99U	U	ug/L	2.0	0.99	0.19	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Benzyl Alcohol	2.0U	U	ug/L	7.9	2.0	0.23	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
4-Bromophenyl-phenylether	0.99U	U	ug/L	7.9	0.99	0.17	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Butylbenzylphthalate	0.99U	U	ug/L	7.9	0.99	0.11	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Carbazole	0.99U	U	ug/L	7.9	0.99	0.12	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
4-Chloro-3-methylphenol	0.99U	U	ug/L	7.9	0.99	0.19	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
4-Chloroaniline	0.99U	U	ug/L	7.9	0.99	0.21	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
bis(2-Chloroethoxy)methane	0.99U	U	ug/L	7.9	0.99	0.21	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
bis(2-Chloroethyl)ether	0.99U	U	ug/L	7.9	0.99	0.17	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
bis(2-Chloroisopropyl)ether	0.99U	U	ug/L	7.9	0.99	0.28	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
2-Chloronaphthalene	0.99U	U	ug/L	7.9	0.99	0.18	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
2-Chlorophenol	2.0U	U	ug/L	7.9	2.0	0.33	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
4-Chlorophenyl-phenylether	0.99U	U	ug/L	7.9	0.99	0.14	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Chrysene	0.99U	U	ug/L	2.0	0.99	0.12	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
mp-Cresol	0.99U	U	ug/L	7.9	0.99	0.15	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
o-Cresol	0.99U	U	ug/L	7.9	0.99	0.25	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Di-n-Butylphthalate	0.99U	U	ug/L	7.9	0.99	0.14	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Di-n-Octylphthalate	0.99U	U	ug/L	7.9	0.99	0.099	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Dibenzo(a,h)anthracene	0.99U	U	ug/L	2.0	0.99	0.21	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Dibenzofuran	0.99U	U	ug/L	7.9	0.99	0.11	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
1,2-Dichlorobenzene	0.99U	U	ug/L	7.9	0.99	0.20	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
1,3-Dichlorobenzene	0.99U	U	ug/L	7.9	0.99	0.17	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
1,4-Dichlorobenzene	0.99U	U	ug/L	7.9	0.99	0.18	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
3,3-Dichlorobenzidine	3.0U	U	ug/L	15.8	3.0	0.48	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
2,4-Dichlorophenol	0.99U	U	ug/L	7.9	0.99	0.32	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Diethylphthalate	0.99U	U	ug/L	7.9	0.99	0.18	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
2,4-Dimethylphenol	5.0U	U	ug/L	7.9	5.0	0.21	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
Dimethylphthalate	0.99U	U	ug/L	7.9	0.99	0.14	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B
2,4-Dinitrophenol	7.9U	U	ug/L	15.8	7.9	1.8	SW846 8270D	8/9/16 JTH	8/10/16 21:25	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196005**
Sample ID: **PAR-79-MP-TMW03**

Date Collected: 8/4/2016 10:10 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By		Analyzed	By	Cntr
2,4-Dinitrotoluene	0.99U	U	ug/L	7.9	0.99	0.12	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
2,6-Dinitrotoluene	0.99U	U	ug/L	7.9	0.99	0.21	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
1,2-Diphenylhydrazine	0.99U	U	ug/L	7.9	0.99	0.26	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
bis(2-Ethylhexyl)phthalate	0.99U	U	ug/L	7.9	0.99	0.22	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Fluoranthene	0.99U	U	ug/L	2.0	0.99	0.17	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Fluorene	0.99U	U	ug/L	2.0	0.99	0.20	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Hexachlorobenzene	0.99U	U	ug/L	7.9	0.99	0.23	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Hexachlorobutadiene	0.99U	U	ug/L	7.9	0.99	0.19	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Hexachlorocyclopentadiene	2.0U	U	ug/L	7.9	2.0	0.17	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Hexachloroethane	0.99U	U	ug/L	7.9	0.99	0.30	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Indeno(1,2,3-cd)pyrene	0.99U	U	ug/L	2.0	0.99	0.099	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Isophorone	0.99U	U	ug/L	7.9	0.99	0.15	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
2-Methyl-4,6-dinitrophenol	5.0U	U	ug/L	7.9	5.0	0.33	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
2-Methylnaphthalene	0.99U	U	ug/L	2.0	0.99	0.16	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Naphthalene	0.99U	U	ug/L	2.0	0.99	0.12	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
2-Nitroaniline	0.99U	U	ug/L	7.9	0.99	0.20	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
3-Nitroaniline	2.0U	U	ug/L	7.9	2.0	0.18	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
4-Nitroaniline	0.99U	U	ug/L	7.9	0.99	0.41	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Nitrobenzene	2.0U	U	ug/L	7.9	2.0	0.28	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
2-Nitrophenol	2.0U	U	ug/L	7.9	2.0	0.45	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
4-Nitrophenol	5.0U	U	ug/L	7.9	5.0	1.0	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
N-Nitrosodimethylamine	2.0U	U	ug/L	7.9	2.0	0.63	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
N-Nitroso-di-n-propylamine	0.99U	U	ug/L	7.9	0.99	0.24	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
N-Nitrosodiphenylamine	2.0U	U	ug/L	7.9	2.0	0.18	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Pentachlorophenol	7.9U	U	ug/L	15.8	7.9	1.1	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Phenanthrene	0.99U	U	ug/L	2.0	0.99	0.13	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Phenol	0.99U	U	ug/L	7.9	0.99	0.23	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Pyrene	0.99U	U	ug/L	2.0	0.99	0.16	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
1,2,4-Trichlorobenzene	0.99U	U	ug/L	7.9	0.99	0.13	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
2,4,5-Trichlorophenol	3.0U	U	ug/L	7.9	3.0	0.54	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
2,4,6-Trichlorophenol	0.99U	U	ug/L	7.9	0.99	0.56	SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	72		%	47 - 128			SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
2-Fluorobiphenyl (S)	62.9		%	52 - 118			SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
2-Fluorophenol (S)	43.4		%	20 - 87			SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Nitrobenzene-d5 (S)	68.1		%	27 - 139			SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Phenol-d5 (S)	28.1		%	10 - 81			SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B
Terphenyl-d14 (S)	36.1	2	%	46 - 133			SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196005**
Sample ID: **PAR-79-MP-TMW03**

Date Collected: 8/4/2016 10:10 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2,4,6-Tribromophenol (S)	72		%	43 - 140			SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS B
2-Fluorobiphenyl (S)	62.9		%	44 - 119			SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS B
2-Fluorophenol (S)	43.4		%	19 - 119			SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS B
Nitrobenzene-d5 (S)	68.1		%	44 - 120			SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS B
Phenol-d5 (S)	28.1		%	13 - 49			SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS B
Terphenyl-d14 (S)	36.1	1	%	50 - 134			SW846 8270D	8/9/16	JTH	8/10/16 21:25	CGS B
SEMIVOLATILE SIM											
Acenaphthene	0.040U	U	ug/L	0.050	0.040	0.011	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Acenaphthylene	0.040U	U	ug/L	0.050	0.040	0.011	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Anthracene	0.040U	U	ug/L	0.050	0.040	0.017	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Benzo(a)anthracene	0.043J	J	ug/L	0.050	0.040	0.017	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Benzo(a)pyrene	0.043J	J	ug/L	0.050	0.040	0.020	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Benzo(b)fluoranthene	0.066		ug/L	0.050	0.040	0.020	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Benzo(g,h,i)perylene	0.040U	U4	ug/L	0.050	0.040	0.038	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Benzo(k)fluoranthene	0.028J	J	ug/L	0.050	0.040	0.025	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Chrysene	0.054		ug/L	0.050	0.040	0.017	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Dibenzo(a,h)anthracene	0.040U	U	ug/L	0.050	0.040	0.023	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
2,4-Dinitrotoluene	0.040U	U	ug/L	0.050	0.040	0.021	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
2,6-Dinitrotoluene	0.040U	U	ug/L	0.050	0.040	0.031	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Fluoranthene	0.084		ug/L	0.050	0.040	0.018	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Fluorene	0.040U	U	ug/L	0.050	0.040	0.015	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Indeno(1,2,3-cd)pyrene	0.050U	U	ug/L	0.050	0.050	0.041	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Naphthalene	0.050		ug/L	0.050	0.040	0.037	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Pentachlorophenol	0.99U	U	ug/L	0.99	0.99	0.18	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Phenanthrene	0.061		ug/L	0.050	0.040	0.020	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Pyrene	0.076		ug/L	0.050	0.040	0.015	8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Methylnaphthalene-d10 (S)	56.4		%	29 - 112			8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
Fluoranthene-d10 (S)	38.8	3	%	45 - 130			8270 SIM	8/9/16	JTH	8/11/16 18:02	CGS B
LIBRARY SEARCH - SEMI-VOLATILE											
No TIC's Detected	.						Lib Search SV		8/10/16 21:25	EGO	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196005**

Date Collected: 8/4/2016 10:10

Matrix: Water

Sample ID: **PAR-79-MP-TMW03**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator**ALS Environmental Laboratory Locations Across North America****Canada:** Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196006**

Date Collected: 8/4/2016 10:35

Matrix: Water

Sample ID: **PAR-79-MP-TMW04**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	4.2J	J	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 16:12	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 16:12	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 16:12	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 16:12	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
sec-Butylbenzene	0.34J	J	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 16:12	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196006**

Date Collected: 8/4/2016 10:35

Matrix: Water

Sample ID: **PAR-79-MP-TMW04**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Hexachlorobutadiene	0.75U	U3	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 16:12	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 16:12	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 16:12	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 16:12	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 16:12	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 16:12	DD	D
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	104		%	81 - 118			SW846 8260C		8/9/16 16:12	DD	D
4-Bromofluorobenzene (S)	113		%	85 - 114			SW846 8260C		8/9/16 16:12	DD	D
Dibromofluoromethane (S)	96.2		%	80 - 119			SW846 8260C		8/9/16 16:12	DD	D
Toluene-d8 (S)	97.3		%	89 - 112			SW846 8260C		8/9/16 16:12	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected

Lib Search VOC

8/9/16 16:12 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196006**
Sample ID: **PAR-79-MP-TMW04**

Date Collected: 8/4/2016 10:35 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	0.95U	U	ug/L	1.9	0.95	0.14	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Acenaphthylene	0.95U	U	ug/L	1.9	0.95	0.18	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Anthracene	0.95U	U	ug/L	1.9	0.95	0.14	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Benzidine	7.6U	U	ug/L	7.6	7.6	3.0	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Benzidine	28.6U	U	ug/L	28.6	28.6	3.0	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Benzo(a)anthracene	0.25J	J	ug/L	1.9	0.95	0.12	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Benzo(a)pyrene	0.95U	U	ug/L	1.9	0.95	0.21	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Benzo(b)fluoranthene	0.22J	J	ug/L	1.9	0.95	0.10	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Benzo(g,h,i)perylene	0.95U	U	ug/L	1.9	0.95	0.21	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Benzo(k)fluoranthene	0.95U	U	ug/L	1.9	0.95	0.18	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Benzyl Alcohol	1.9U	U	ug/L	7.6	1.9	0.22	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
4-Bromophenyl-phenylether	0.95U	U	ug/L	7.6	0.95	0.16	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Butylbenzylphthalate	0.95U	U	ug/L	7.6	0.95	0.10	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Carbazole	0.95U	U	ug/L	7.6	0.95	0.11	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
4-Chloro-3-methylphenol	0.95U	U	ug/L	7.6	0.95	0.18	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
4-Chloroaniline	0.95U	U	ug/L	7.6	0.95	0.20	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
bis(2-Chloroethoxy)methane	0.95U	U	ug/L	7.6	0.95	0.20	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
bis(2-Chloroethyl)ether	0.95U	U	ug/L	7.6	0.95	0.16	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
bis(2-Chloroisopropyl)ether	0.95U	U	ug/L	7.6	0.95	0.27	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
2-Chloronaphthalene	0.95U	U	ug/L	7.6	0.95	0.17	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
2-Chlorophenol	1.9U	U	ug/L	7.6	1.9	0.31	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
4-Chlorophenyl-phenylether	0.95U	U	ug/L	7.6	0.95	0.13	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Chrysene	0.15J	J	ug/L	1.9	0.95	0.11	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
mp-Cresol	0.95U	U	ug/L	7.6	0.95	0.14	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
o-Cresol	0.95U	U	ug/L	7.6	0.95	0.24	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Di-n-Butylphthalate	0.95U	U	ug/L	7.6	0.95	0.13	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Di-n-Octylphthalate	0.95U	U	ug/L	7.6	0.95	0.095	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Dibenzo(a,h)anthracene	0.95U	U	ug/L	1.9	0.95	0.20	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Dibenzofuran	0.29J	J	ug/L	7.6	0.95	0.10	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
1,2-Dichlorobenzene	0.95U	U	ug/L	7.6	0.95	0.19	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
1,3-Dichlorobenzene	0.95U	U	ug/L	7.6	0.95	0.16	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
1,4-Dichlorobenzene	0.95U	U	ug/L	7.6	0.95	0.17	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
3,3-Dichlorobenzidine	2.9U	U	ug/L	15.2	2.9	0.46	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
2,4-Dichlorophenol	0.95U	U	ug/L	7.6	0.95	0.30	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Diethylphthalate	0.95U	U	ug/L	7.6	0.95	0.17	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
2,4-Dimethylphenol	4.8U	U	ug/L	7.6	4.8	0.20	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
Dimethylphthalate	0.95U	U	ug/L	7.6	0.95	0.13	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B
2,4-Dinitrophenol	7.6U	U	ug/L	15.2	7.6	1.7	SW846 8270D	8/9/16 JTH	8/10/16 21:50	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196006**

Date Collected: 8/4/2016 10:35

Matrix: Water

Sample ID: **PAR-79-MP-TMW04**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By		Analyzed	By	Cntr
2,4-Dinitrotoluene	0.95U	U	ug/L	7.6	0.95	0.11	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
2,6-Dinitrotoluene	0.95U	U	ug/L	7.6	0.95	0.20	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
1,2-Diphenylhydrazine	0.95U	U	ug/L	7.6	0.95	0.25	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
bis(2-Ethylhexyl)phthalate	0.95U	U	ug/L	7.6	0.95	0.21	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Fluoranthene	0.41J	J	ug/L	1.9	0.95	0.16	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Fluorene	0.95U	U	ug/L	1.9	0.95	0.19	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Hexachlorobenzene	0.95U	U	ug/L	7.6	0.95	0.22	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Hexachlorobutadiene	0.95U	U	ug/L	7.6	0.95	0.18	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Hexachlorocyclopentadiene	1.9U	U	ug/L	7.6	1.9	0.16	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Hexachloroethane	0.95U	U	ug/L	7.6	0.95	0.29	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Indeno(1,2,3-cd)pyrene	0.099J	J	ug/L	1.9	0.95	0.095	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Isophorone	0.95U	U	ug/L	7.6	0.95	0.14	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
2-Methyl-4,6-dinitrophenol	4.8U	U	ug/L	7.6	4.8	0.31	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
2-Methylnaphthalene	0.95U	U	ug/L	1.9	0.95	0.15	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Naphthalene	0.95U	U	ug/L	1.9	0.95	0.11	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
2-Nitroaniline	0.95U	U	ug/L	7.6	0.95	0.19	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
3-Nitroaniline	1.9U	U	ug/L	7.6	1.9	0.17	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
4-Nitroaniline	0.95U	U	ug/L	7.6	0.95	0.39	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Nitrobenzene	1.9U	U	ug/L	7.6	1.9	0.27	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
2-Nitrophenol	1.9U	U	ug/L	7.6	1.9	0.43	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
4-Nitrophenol	4.8U	U	ug/L	7.6	4.8	1.0	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
N-Nitrosodimethylamine	1.9U	U	ug/L	7.6	1.9	0.61	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
N-Nitroso-di-n-propylamine	0.95U	U	ug/L	7.6	0.95	0.23	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
N-Nitrosodiphenylamine	1.9U	U	ug/L	7.6	1.9	0.17	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Pentachlorophenol	7.6U	U	ug/L	15.2	7.6	1.0	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Phenanthrene	0.34J	J	ug/L	1.9	0.95	0.12	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Phenol	0.95U	U	ug/L	7.6	0.95	0.22	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Pyrene	0.37J	J	ug/L	1.9	0.95	0.15	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
1,2,4-Trichlorobenzene	0.95U	U	ug/L	7.6	0.95	0.12	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
2,4,5-Trichlorophenol	2.9U	U	ug/L	7.6	2.9	0.52	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
2,4,6-Trichlorophenol	0.95U	U	ug/L	7.6	0.95	0.54	SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	70.9		%	47 - 128			SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
2-Fluorobiphenyl (S)	57.8		%	52 - 118			SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
2-Fluorophenol (S)	43.2		%	20 - 87			SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Nitrobenzene-d5 (S)	66.4		%	27 - 139			SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Phenol-d5 (S)	28.6		%	10 - 81			SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Terphenyl-d14 (S)	46.2		%	46 - 133			SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196006**
Sample ID: **PAR-79-MP-TMW04**

Date Collected: 8/4/2016 10:35 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	70.9		%	43 - 140			SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
2-Fluorobiphenyl (S)	57.8		%	44 - 119			SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
2-Fluorophenol (S)	43.2		%	19 - 119			SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Nitrobenzene-d5 (S)	66.4		%	44 - 120			SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Phenol-d5 (S)	28.6		%	13 - 49			SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Terphenyl-d14 (S)	46.2	1	%	50 - 134			SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Library Search - SemiVolatiles												
Unknown	5.7	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Tridecane, 6-methyl-	4.1	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Hexadecane, 2,6,10,14-tetramet	6.0	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Unknown	5.3	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Hexadecanoic acid	9.5	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Octadecanoic acid	13.6	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Unknown	4.7	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Unknown	5.1	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
1-Heptacosanol	8.6	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Cholesterol	9.4	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
Nonacosane	7.6	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 21:50	CGS	B
SEMIVOLATILE SIM												
Acenaphthene	0.012J	J	ug/L	0.048	0.038	0.010	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
Acenaphthylene	0.040J	J	ug/L	0.048	0.038	0.010	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
Anthracene	0.096		ug/L	0.048	0.038	0.016	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
Benzo(a)anthracene	0.11		ug/L	0.048	0.038	0.016	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
Benzo(a)pyrene	0.13		ug/L	0.048	0.038	0.019	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
Benzo(b)fluoranthene	0.20		ug/L	0.048	0.038	0.019	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
Benzo(g,h,i)perylene	0.087	2	ug/L	0.048	0.038	0.036	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
Benzo(k)fluoranthene	0.073		ug/L	0.048	0.038	0.024	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
Chrysene	0.15		ug/L	0.048	0.038	0.016	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
Dibenzo(a,h)anthracene	0.023J	J	ug/L	0.048	0.038	0.022	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
2,4-Dinitrotoluene	0.038U	U	ug/L	0.048	0.038	0.020	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
2,6-Dinitrotoluene	0.038U	U	ug/L	0.048	0.038	0.030	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
Fluoranthene	0.31		ug/L	0.048	0.038	0.017	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
Fluorene	0.13		ug/L	0.048	0.038	0.014	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
Indeno(1,2,3-cd)pyrene	0.089		ug/L	0.048	0.048	0.039	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B
Naphthalene	0.10		ug/L	0.048	0.038	0.035	8270 SIM	8/9/16	JTH	8/11/16 18:28	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

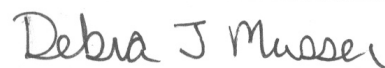
ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196006**
Sample ID: **PAR-79-MP-TMW04**

Date Collected: 8/4/2016 10:35 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Pentachlorophenol	0.95U	U	ug/L	0.95	0.95	0.17	8270 SIM	8/9/16 JTH	8/11/16 18:28	CGS	B
Phenanthrene	0.24		ug/L	0.048	0.038	0.019	8270 SIM	8/9/16 JTH	8/11/16 18:28	CGS	B
Pyrene	0.27		ug/L	0.048	0.038	0.014	8270 SIM	8/9/16 JTH	8/11/16 18:28	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	53.8		%	29 - 112			8270 SIM	8/9/16 JTH	8/11/16 18:28	CGS	B
Fluoranthene-d10 (S)	45.1		%	45 - 130			8270 SIM	8/9/16 JTH	8/11/16 18:28	CGS	B



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196007**

Date Collected: 8/4/2016 10:55

Matrix: Water

Sample ID: **PAR-79-MP-TMW05**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	5.3		ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 12:32	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 12:32	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 12:32	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 12:32	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 12:32	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196007**

Date Collected: 8/4/2016 10:55

Matrix: Water

Sample ID: **PAR-79-MP-TMW05**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Hexachlorobutadiene	0.75U	U2	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 12:32	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 12:32	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 12:32	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 12:32	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:32	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 12:32	DD	D
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	103		%	81 - 118			SW846 8260C		8/9/16 12:32	DD	D
4-Bromofluorobenzene (S)	110		%	85 - 114			SW846 8260C		8/9/16 12:32	DD	D
Dibromofluoromethane (S)	95.4		%	80 - 119			SW846 8260C		8/9/16 12:32	DD	D
Toluene-d8 (S)	98		%	89 - 112			SW846 8260C		8/9/16 12:32	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected

Lib Search VOC

8/9/16 12:32 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196007**

Date Collected: 8/4/2016 10:55

Matrix: Water

Sample ID: **PAR-79-MP-TMW05**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	0.93U	U	ug/L	1.9	0.93	0.14	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Acenaphthylene	0.93U	U	ug/L	1.9	0.93	0.18	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Anthracene	0.93U	U	ug/L	1.9	0.93	0.14	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Benzidine	27.8U	U	ug/L	27.8	27.8	2.9	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Benzidine	7.4U	U	ug/L	7.4	7.4	2.9	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Benzo(a)anthracene	0.93U	U	ug/L	1.9	0.93	0.12	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Benzo(a)pyrene	0.93U	U	ug/L	1.9	0.93	0.20	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Benzo(b)fluoranthene	0.93U	U	ug/L	1.9	0.93	0.10	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Benzo(g,h,i)perylene	0.93U	U	ug/L	1.9	0.93	0.20	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Benzo(k)fluoranthene	0.93U	U	ug/L	1.9	0.93	0.18	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Benzyl Alcohol	1.9U	U	ug/L	7.4	1.9	0.21	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
4-Bromophenyl-phenylether	0.93U	U	ug/L	7.4	0.93	0.16	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Butylbenzylphthalate	0.93U	U	ug/L	7.4	0.93	0.10	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Carbazole	0.93U	U	ug/L	7.4	0.93	0.11	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
4-Chloro-3-methylphenol	0.93U	U	ug/L	7.4	0.93	0.18	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
4-Chloroaniline	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
bis(2-Chloroethoxy)methane	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
bis(2-Chloroethyl)ether	0.93U	U	ug/L	7.4	0.93	0.16	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
bis(2-Chloroisopropyl)ether	0.93U	U	ug/L	7.4	0.93	0.26	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
2-Chloronaphthalene	0.93U	U	ug/L	7.4	0.93	0.17	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
2-Chlorophenol	1.9U	U	ug/L	7.4	1.9	0.31	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
4-Chlorophenyl-phenylether	0.93U	U	ug/L	7.4	0.93	0.13	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Chrysene	0.93U	U	ug/L	1.9	0.93	0.11	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
mp-Cresol	0.93U	U	ug/L	7.4	0.93	0.14	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
o-Cresol	0.93U	U	ug/L	7.4	0.93	0.23	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Di-n-Butylphthalate	0.93U	U	ug/L	7.4	0.93	0.13	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Di-n-Octylphthalate	0.93U	U	ug/L	7.4	0.93	0.093	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Dibenzo(a,h)anthracene	0.93U	U	ug/L	1.9	0.93	0.19	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Dibenzofuran	0.93U	U	ug/L	7.4	0.93	0.10	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
1,2-Dichlorobenzene	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
1,3-Dichlorobenzene	0.93U	U	ug/L	7.4	0.93	0.16	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
1,4-Dichlorobenzene	0.93U	U	ug/L	7.4	0.93	0.17	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
3,3-Dichlorobenzidine	2.8U	U	ug/L	14.8	2.8	0.44	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
2,4-Dichlorophenol	0.93U	U	ug/L	7.4	0.93	0.30	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Diethylphthalate	0.93U	U	ug/L	7.4	0.93	0.17	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
2,4-Dimethylphenol	4.6U	U	ug/L	7.4	4.6	0.19	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
Dimethylphthalate	0.93U	U	ug/L	7.4	0.93	0.13	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B
2,4-Dinitrophenol	7.4U	U	ug/L	14.8	7.4	1.7	SW846 8270D	8/9/16 JTH	8/10/16 22:15	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196007**

Date Collected: 8/4/2016 10:55

Matrix: Water

Sample ID: **PAR-79-MP-TMW05**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By		Analyzed		By	Cntr
2,4-Dinitrotoluene	0.93U	U	ug/L	7.4	0.93	0.11	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
2,6-Dinitrotoluene	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
1,2-Diphenylhydrazine	0.93U	U	ug/L	7.4	0.93	0.24	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
bis(2-Ethylhexyl)phthalate	0.93U	U	ug/L	7.4	0.93	0.20	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Fluoranthene	0.93U	U	ug/L	1.9	0.93	0.16	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Fluorene	0.93U	U	ug/L	1.9	0.93	0.19	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Hexachlorobenzene	0.93U	U	ug/L	7.4	0.93	0.21	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Hexachlorobutadiene	0.93U	U	ug/L	7.4	0.93	0.18	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Hexachlorocyclopentadiene	1.9U	U	ug/L	7.4	1.9	0.16	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Hexachloroethane	0.93U	U	ug/L	7.4	0.93	0.28	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Indeno(1,2,3-cd)pyrene	0.93U	U	ug/L	1.9	0.93	0.093	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Isophorone	0.93U	U	ug/L	7.4	0.93	0.14	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
2-Methyl-4,6-dinitrophenol	4.6U	U	ug/L	7.4	4.6	0.31	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
2-Methylnaphthalene	0.93U	U	ug/L	1.9	0.93	0.15	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Naphthalene	0.93U	U	ug/L	1.9	0.93	0.11	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
2-Nitroaniline	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
3-Nitroaniline	1.9U	U	ug/L	7.4	1.9	0.17	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
4-Nitroaniline	0.93U	U	ug/L	7.4	0.93	0.38	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Nitrobenzene	1.9U	U	ug/L	7.4	1.9	0.26	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
2-Nitrophenol	1.9U	U	ug/L	7.4	1.9	0.42	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
4-Nitrophenol	4.6U	U	ug/L	7.4	4.6	0.97	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
N-Nitrosodimethylamine	1.9U	U	ug/L	7.4	1.9	0.59	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
N-Nitroso-di-n-propylamine	0.93U	U	ug/L	7.4	0.93	0.22	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
N-Nitrosodiphenylamine	1.9U	U	ug/L	7.4	1.9	0.17	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Pentachlorophenol	7.4U	U	ug/L	14.8	7.4	0.99	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Phenanthrene	0.93U	U	ug/L	1.9	0.93	0.12	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Phenol	0.93U	U	ug/L	7.4	0.93	0.21	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Pyrene	0.93U	U	ug/L	1.9	0.93	0.15	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
1,2,4-Trichlorobenzene	0.93U	U	ug/L	7.4	0.93	0.12	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
2,4,5-Trichlorophenol	2.8U	U	ug/L	7.4	2.8	0.51	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
2,4,6-Trichlorophenol	0.93U	U	ug/L	7.4	0.93	0.53	SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr	
2,4,6-Tribromophenol (S)	72.8		%	47 - 128			SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
2-Fluorobiphenyl (S)	62		%	52 - 118			SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
2-Fluorophenol (S)	38		%	20 - 87			SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Nitrobenzene-d5 (S)	62.5		%	27 - 139			SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Phenol-d5 (S)	25		%	10 - 81			SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	
Terphenyl-d14 (S)	64.6		%	46 - 133			SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B	

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196007**

Date Collected: 8/4/2016 10:55

Matrix: Water

Sample ID: **PAR-79-MP-TMW05**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	72.8		%	43 - 140			SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B
2-Fluorobiphenyl (S)	62		%	44 - 119			SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B
2-Fluorophenol (S)	38		%	19 - 119			SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B
Nitrobenzene-d5 (S)	62.5		%	44 - 120			SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B
Phenol-d5 (S)	25		%	13 - 49			SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B
Terphenyl-d14 (S)	64.6		%	50 - 134			SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B
Library Search - SemiVolatiles												
Unknown	11.9	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 22:15	CGS	B
SEMIVOLATILE SIM												
Acenaphthene	0.037U	U	ug/L	0.046	0.037	0.010	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Acenaphthylene	0.037U	U	ug/L	0.046	0.037	0.010	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Anthracene	0.037U	U	ug/L	0.046	0.037	0.016	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Benzo(a)anthracene	0.037U	U	ug/L	0.046	0.037	0.016	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Benzo(a)pyrene	0.037U	U	ug/L	0.046	0.037	0.019	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Benzo(b)fluoranthene	0.037U	U	ug/L	0.046	0.037	0.019	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Benzo(g,h,i)perylene	0.037U	U1	ug/L	0.046	0.037	0.035	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Benzo(k)fluoranthene	0.037U	U	ug/L	0.046	0.037	0.023	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Chrysene	0.037U	U	ug/L	0.046	0.037	0.016	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Dibenzo(a,h)anthracene	0.037U	U	ug/L	0.046	0.037	0.021	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
2,4-Dinitrotoluene	0.037U	U	ug/L	0.046	0.037	0.019	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
2,6-Dinitrotoluene	0.037U	U	ug/L	0.046	0.037	0.029	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Fluoranthene	0.037U	U	ug/L	0.046	0.037	0.017	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Fluorene	0.016J	J	ug/L	0.046	0.037	0.014	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Indeno(1,2,3-cd)pyrene	0.046U	U	ug/L	0.046	0.046	0.038	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Naphthalene	0.037U	U	ug/L	0.046	0.037	0.034	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Pentachlorophenol	0.93U	U	ug/L	0.93	0.93	0.17	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Phenanthrene	0.026J	J	ug/L	0.046	0.037	0.019	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Pyrene	0.037U	U	ug/L	0.046	0.037	0.014	8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2-Methylnapthalene-d10 (S)	56.1		%	29 - 112			8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B
Fluoranthene-d10 (S)	65.3		%	45 - 130			8270 SIM	8/9/16	JTH	8/11/16 18:55	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196007** Date Collected: 8/4/2016 10:55 Matrix: Water
Sample ID: **PAR-79-MP-TMW05** Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196008**

Date Collected: 8/4/2016 11:20

Matrix: Water

Sample ID: **PAR-79-MP-TMW06**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	4.2J	J	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 12:54	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 12:54	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 12:54	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 12:54	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 12:54	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196008**

Date Collected: 8/4/2016 11:20

Matrix: Water

Sample ID: **PAR-79-MP-TMW06**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Hexachlorobutadiene	0.75U	U6	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 12:54	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 12:54	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 12:54	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 12:54	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 12:54	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 12:54	DD	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	81 - 118			SW846 8260C		8/9/16 12:54	DD	D
4-Bromofluorobenzene (S)	112		%	85 - 114			SW846 8260C		8/9/16 12:54	DD	D
Dibromofluoromethane (S)	95.6		%	80 - 119			SW846 8260C		8/9/16 12:54	DD	D
Toluene-d8 (S)	98.7		%	89 - 112			SW846 8260C		8/9/16 12:54	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected

Lib Search VOC

8/9/16 12:54 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196008**
Sample ID: **PAR-79-MP-TMW06**

Date Collected: 8/4/2016 11:20 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	1.0U	U	ug/L	2.0	1.0	0.15	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Acenaphthylene	1.0U	U	ug/L	2.0	1.0	0.19	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Anthracene	1.0U	U	ug/L	2.0	1.0	0.15	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Benzidine	29.9U	U	ug/L	29.9	29.9	3.1	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Benzidine	8.0U	U	ug/L	8.0	8.0	3.1	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Benzo(a)anthracene	1.0U	U	ug/L	2.0	1.0	0.13	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Benzo(a)pyrene	1.0U	U	ug/L	2.0	1.0	0.22	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Benzo(b)fluoranthene	1.0U	U	ug/L	2.0	1.0	0.11	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Benzo(g,h,i)perylene	1.0U	U	ug/L	2.0	1.0	0.22	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Benzo(k)fluoranthene	1.0U	U	ug/L	2.0	1.0	0.19	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Benzyl Alcohol	2.0U	U	ug/L	8.0	2.0	0.23	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
4-Bromophenyl-phenylether	1.0U	U	ug/L	8.0	1.0	0.17	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Butylbenzylphthalate	1.0U	U	ug/L	8.0	1.0	0.11	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Carbazole	1.0U	U	ug/L	8.0	1.0	0.12	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
4-Chloro-3-methylphenol	1.0U	U	ug/L	8.0	1.0	0.19	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
4-Chloroaniline	1.0U	U	ug/L	8.0	1.0	0.21	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
bis(2-Chloroethoxy)methane	1.0U	U	ug/L	8.0	1.0	0.21	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
bis(2-Chloroethyl)ether	1.0U	U	ug/L	8.0	1.0	0.17	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
bis(2-Chloroisopropyl)ether	1.0U	U	ug/L	8.0	1.0	0.28	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
2-Chloronaphthalene	1.0U	U	ug/L	8.0	1.0	0.18	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
2-Chlorophenol	2.0U	U	ug/L	8.0	2.0	0.33	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
4-Chlorophenyl-phenylether	1.0U	U	ug/L	8.0	1.0	0.14	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Chrysene	1.0U	U	ug/L	2.0	1.0	0.12	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
mp-Cresol	1.0U	U	ug/L	8.0	1.0	0.15	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
o-Cresol	1.0U	U	ug/L	8.0	1.0	0.25	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Di-n-Butylphthalate	1.0U	U	ug/L	8.0	1.0	0.14	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Di-n-Octylphthalate	1.0U	U	ug/L	8.0	1.0	0.10	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Dibenzo(a,h)anthracene	1.0U	U	ug/L	2.0	1.0	0.21	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Dibenzofuran	1.0U	U	ug/L	8.0	1.0	0.11	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
1,2-Dichlorobenzene	1.0U	U	ug/L	8.0	1.0	0.20	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
1,3-Dichlorobenzene	1.0U	U	ug/L	8.0	1.0	0.17	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
1,4-Dichlorobenzene	1.0U	U	ug/L	8.0	1.0	0.18	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
3,3-Dichlorobenzidine	3.0U	U	ug/L	15.9	3.0	0.48	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
2,4-Dichlorophenol	1.0U	U	ug/L	8.0	1.0	0.32	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Diethylphthalate	1.0U	U	ug/L	8.0	1.0	0.18	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
2,4-Dimethylphenol	5.0U	U	ug/L	8.0	5.0	0.21	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
Dimethylphthalate	1.0U	U	ug/L	8.0	1.0	0.14	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B
2,4-Dinitrophenol	8.0U	U	ug/L	15.9	8.0	1.8	SW846 8270D	8/9/16 JTH	8/10/16 22:40	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196008**
Sample ID: **PAR-79-MP-TMW06**

Date Collected: 8/4/2016 11:20 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By		Analyzed		By	Cntr
2,4-Dinitrotoluene	1.0U	U	ug/L	8.0	1.0	0.12	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
2,6-Dinitrotoluene	1.0U	U	ug/L	8.0	1.0	0.21	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
1,2-Diphenylhydrazine	1.0U	U	ug/L	8.0	1.0	0.26	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
bis(2-Ethylhexyl)phthalate	1.0U	U	ug/L	8.0	1.0	0.22	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Fluoranthene	1.0U	U	ug/L	2.0	1.0	0.17	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Fluorene	1.0U	U	ug/L	2.0	1.0	0.20	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Hexachlorobenzene	1.0U	U	ug/L	8.0	1.0	0.23	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Hexachlorobutadiene	1.0U	U	ug/L	8.0	1.0	0.19	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Hexachlorocyclopentadiene	2.0U	U	ug/L	8.0	2.0	0.17	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Hexachloroethane	1.0U	U	ug/L	8.0	1.0	0.30	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Indeno(1,2,3-cd)pyrene	1.0U	U	ug/L	2.0	1.0	0.10	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Isophorone	1.0U	U	ug/L	8.0	1.0	0.15	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
2-Methyl-4,6-dinitrophenol	5.0U	U	ug/L	8.0	5.0	0.33	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
2-Methylnaphthalene	1.0U	U	ug/L	2.0	1.0	0.16	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Naphthalene	1.0U	U	ug/L	2.0	1.0	0.12	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
2-Nitroaniline	1.0U	U	ug/L	8.0	1.0	0.20	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
3-Nitroaniline	2.0U	U	ug/L	8.0	2.0	0.18	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
4-Nitroaniline	1.0U	U	ug/L	8.0	1.0	0.41	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Nitrobenzene	2.0U	U	ug/L	8.0	2.0	0.28	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
2-Nitrophenol	2.0U	U	ug/L	8.0	2.0	0.45	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
4-Nitrophenol	5.0U	U	ug/L	8.0	5.0	1.0	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
N-Nitrosodimethylamine	2.0U	U	ug/L	8.0	2.0	0.64	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
N-Nitroso-di-n-propylamine	1.0U	U	ug/L	8.0	1.0	0.24	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
N-Nitrosodiphenylamine	2.0U	U	ug/L	8.0	2.0	0.18	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Pentachlorophenol	8.0U	U	ug/L	15.9	8.0	1.1	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Phenanthrene	0.13J	J	ug/L	2.0	1.0	0.13	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Phenol	1.0U	U	ug/L	8.0	1.0	0.23	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Pyrene	1.0U	U	ug/L	2.0	1.0	0.16	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
1,2,4-Trichlorobenzene	1.0U	U	ug/L	8.0	1.0	0.13	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
2,4,5-Trichlorophenol	3.0U	U	ug/L	8.0	3.0	0.55	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
2,4,6-Trichlorophenol	1.0U	U	ug/L	8.0	1.0	0.57	SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr	
2,4,6-Tribromophenol (S)	61.2		%	47 - 128			SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
2-Fluorobiphenyl (S)	48.7	2	%	52 - 118			SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
2-Fluorophenol (S)	31.4		%	20 - 87			SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Nitrobenzene-d5 (S)	49.4		%	27 - 139			SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Phenol-d5 (S)	21.8		%	10 - 81			SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	
Terphenyl-d14 (S)	27.3	3	%	46 - 133			SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS	B	

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196008**
Sample ID: **PAR-79-MP-TMW06**

Date Collected: 8/4/2016 11:20 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2,4,6-Tribromophenol (S)	61.2		%	43 - 140			SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS B
2-Fluorobiphenyl (S)	48.7		%	44 - 119			SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS B
2-Fluorophenol (S)	31.4		%	19 - 119			SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS B
Nitrobenzene-d5 (S)	49.4		%	44 - 120			SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS B
Phenol-d5 (S)	21.8		%	13 - 49			SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS B
Terphenyl-d14 (S)	27.3	1	%	50 - 134			SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS B
Library Search - SemiVolatiles											
Pentadecanoic acid	4.9	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS B
Unknown	8.9	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS B
Unknown	19.5	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 22:40	CGS B
SEMIVOLATILE SIM											
Acenaphthene	0.026J	J	ug/L	0.050	0.040	0.011	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Acenaphthylene	0.040U	U	ug/L	0.050	0.040	0.011	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Anthracene	0.040U	U	ug/L	0.050	0.040	0.017	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Benzo(a)anthracene	0.021J	J	ug/L	0.050	0.040	0.017	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Benzo(a)pyrene	0.040U	U	ug/L	0.050	0.040	0.020	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Benzo(b)fluoranthene	0.040U	U	ug/L	0.050	0.040	0.020	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Benzo(g,h,i)perylene	0.040U	U5	ug/L	0.050	0.040	0.038	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Benzo(k)fluoranthene	0.040U	U	ug/L	0.050	0.040	0.025	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Chrysene	0.022J	J	ug/L	0.050	0.040	0.017	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Dibenzo(a,h)anthracene	0.040U	U	ug/L	0.050	0.040	0.023	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
2,4-Dinitrotoluene	0.040U	U	ug/L	0.050	0.040	0.021	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
2,6-Dinitrotoluene	0.040U	U	ug/L	0.050	0.040	0.031	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Fluoranthene	0.050		ug/L	0.050	0.040	0.018	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Fluorene	0.017J	J	ug/L	0.050	0.040	0.015	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Indeno(1,2,3-cd)pyrene	0.050U	U	ug/L	0.050	0.050	0.041	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Naphthalene	0.040U	U	ug/L	0.050	0.040	0.037	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Pentachlorophenol	1.0U	U	ug/L	1.0	1.0	0.18	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Phenanthrene	0.091		ug/L	0.050	0.040	0.020	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Pyrene	0.037J	J	ug/L	0.050	0.040	0.015	8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Methylnaphthalene-d10 (S)	45.6		%	29 - 112			8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B
Fluoranthene-d10 (S)	30.4	4	%	45 - 130			8270 SIM	8/9/16	JTH	8/11/16 19:21	CGS B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



ALS Environmental



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196008**

Date Collected: 8/4/2016 11:20

Matrix: Water

Sample ID: **PAR-79-MP-TMW06**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196009**

Date Collected: 8/4/2016 11:50

Matrix: Water

Sample ID: **PAR-79-MP-TMW07**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 13:16	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 13:16	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 13:16	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 13:16	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 13:16	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196009**

Date Collected: 8/4/2016 11:50

Matrix: Water

Sample ID: **PAR-79-MP-TMW07**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Hexachlorobutadiene	0.75U	U3	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 13:16	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 13:16	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 13:16	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 13:16	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:16	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 13:16	DD	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	81 - 118			SW846 8260C		8/9/16 13:16	DD	D
4-Bromofluorobenzene (S)	110		%	85 - 114			SW846 8260C		8/9/16 13:16	DD	D
Dibromofluoromethane (S)	95.2		%	80 - 119			SW846 8260C		8/9/16 13:16	DD	D
Toluene-d8 (S)	98.9		%	89 - 112			SW846 8260C		8/9/16 13:16	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected

Lib Search VOC

8/9/16 13:16 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196009**

Date Collected: 8/4/2016 11:50

Matrix: Water

Sample ID: **PAR-79-MP-TMW07**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	0.98U	U	ug/L	2.0	0.98	0.15	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Acenaphthylene	0.20J	J	ug/L	2.0	0.98	0.19	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Anthracene	0.98U	U	ug/L	2.0	0.98	0.15	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Benzidine	29.4U	U	ug/L	29.4	29.4	3.0	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Benzidine	7.8U	U	ug/L	7.8	7.8	3.0	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Benzo(a)anthracene	0.34J	J	ug/L	2.0	0.98	0.13	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Benzo(a)pyrene	0.29J	J	ug/L	2.0	0.98	0.22	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Benzo(b)fluoranthene	0.31J	J	ug/L	2.0	0.98	0.11	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Benzo(g,h,i)perylene	0.98U	U	ug/L	2.0	0.98	0.22	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Benzo(k)fluoranthene	0.98U	U	ug/L	2.0	0.98	0.19	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Benzyl Alcohol	2.0U	U	ug/L	7.8	2.0	0.23	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
4-Bromophenyl-phenylether	0.98U	U	ug/L	7.8	0.98	0.17	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Butylbenzylphthalate	0.98U	U	ug/L	7.8	0.98	0.11	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Carbazole	0.98U	U	ug/L	7.8	0.98	0.12	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
4-Chloro-3-methylphenol	0.98U	U	ug/L	7.8	0.98	0.19	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
4-Chloroaniline	0.98U	U	ug/L	7.8	0.98	0.21	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
bis(2-Chloroethoxy)methane	0.98U	U	ug/L	7.8	0.98	0.21	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
bis(2-Chloroethyl)ether	0.98U	U	ug/L	7.8	0.98	0.17	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
bis(2-Chloroisopropyl)ether	0.98U	U	ug/L	7.8	0.98	0.27	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
2-Chloronaphthalene	0.98U	U	ug/L	7.8	0.98	0.18	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
2-Chlorophenol	2.0U	U	ug/L	7.8	2.0	0.32	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
4-Chlorophenyl-phenylether	0.98U	U	ug/L	7.8	0.98	0.14	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Chrysene	0.30J	J	ug/L	2.0	0.98	0.12	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
mp-Cresol	0.98U	U	ug/L	7.8	0.98	0.15	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
o-Cresol	0.98U	U	ug/L	7.8	0.98	0.25	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Di-n-Butylphthalate	0.98U	U	ug/L	7.8	0.98	0.14	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Di-n-Octylphthalate	0.98U	U	ug/L	7.8	0.98	0.098	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Dibenzo(a,h)anthracene	0.98U	U	ug/L	2.0	0.98	0.21	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Dibenzofuran	0.98U	U	ug/L	7.8	0.98	0.11	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
1,2-Dichlorobenzene	0.98U	U	ug/L	7.8	0.98	0.20	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
1,3-Dichlorobenzene	0.98U	U	ug/L	7.8	0.98	0.17	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
1,4-Dichlorobenzene	0.98U	U	ug/L	7.8	0.98	0.18	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
3,3-Dichlorobenzidine	2.9U	U	ug/L	15.7	2.9	0.47	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
2,4-Dichlorophenol	0.98U	U	ug/L	7.8	0.98	0.31	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Diethylphthalate	0.98U	U	ug/L	7.8	0.98	0.18	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
2,4-Dimethylphenol	4.9U	U	ug/L	7.8	4.9	0.21	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
Dimethylphthalate	0.98U	U	ug/L	7.8	0.98	0.14	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B
2,4-Dinitrophenol	7.8U	U	ug/L	15.7	7.8	1.8	SW846 8270D	8/9/16 JTH	8/10/16 23:05	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196009**

Date Collected: 8/4/2016 11:50

Matrix: Water

Sample ID: **PAR-79-MP-TMW07**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By		Analyzed	By	Cntr
2,4-Dinitrotoluene	0.98U	U	ug/L	7.8	0.98	0.12	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
2,6-Dinitrotoluene	0.98U	U	ug/L	7.8	0.98	0.21	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
1,2-Diphenylhydrazine	0.98U	U	ug/L	7.8	0.98	0.25	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
bis(2-Ethylhexyl)phthalate	0.98U	U	ug/L	7.8	0.98	0.22	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Fluoranthene	0.28J	J	ug/L	2.0	0.98	0.17	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Fluorene	0.98U	U	ug/L	2.0	0.98	0.20	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Hexachlorobenzene	0.98U	U	ug/L	7.8	0.98	0.23	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Hexachlorobutadiene	0.98U	U	ug/L	7.8	0.98	0.19	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Hexachlorocyclopentadiene	2.0U	U	ug/L	7.8	2.0	0.17	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Hexachloroethane	0.98U	U	ug/L	7.8	0.98	0.29	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Indeno(1,2,3-cd)pyrene	0.20J	J	ug/L	2.0	0.98	0.098	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Isophorone	0.98U	U	ug/L	7.8	0.98	0.15	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
2-Methyl-4,6-dinitrophenol	4.9U	U	ug/L	7.8	4.9	0.32	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
2-Methylnaphthalene	0.98U	U	ug/L	2.0	0.98	0.16	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Naphthalene	0.98U	U	ug/L	2.0	0.98	0.12	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
2-Nitroaniline	0.98U	U	ug/L	7.8	0.98	0.20	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
3-Nitroaniline	2.0U	U	ug/L	7.8	2.0	0.18	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
4-Nitroaniline	0.98U	U	ug/L	7.8	0.98	0.40	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Nitrobenzene	2.0U	U	ug/L	7.8	2.0	0.27	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
2-Nitrophenol	2.0U	U	ug/L	7.8	2.0	0.44	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
4-Nitrophenol	4.9U	U	ug/L	7.8	4.9	1.0	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
N-Nitrosodimethylamine	2.0U	U	ug/L	7.8	2.0	0.63	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
N-Nitroso-di-n-propylamine	0.98U	U	ug/L	7.8	0.98	0.24	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
N-Nitrosodiphenylamine	2.0U	U	ug/L	7.8	2.0	0.18	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Pentachlorophenol	7.8U	U	ug/L	15.7	7.8	1.0	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Phenanthrene	0.20J	J	ug/L	2.0	0.98	0.13	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Phenol	0.98U	U	ug/L	7.8	0.98	0.23	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Pyrene	0.45J	J	ug/L	2.0	0.98	0.16	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
1,2,4-Trichlorobenzene	0.98U	U	ug/L	7.8	0.98	0.13	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
2,4,5-Trichlorophenol	2.9U	U	ug/L	7.8	2.9	0.54	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
2,4,6-Trichlorophenol	0.98U	U	ug/L	7.8	0.98	0.56	SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	74.3		%	47 - 128			SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
2-Fluorobiphenyl (S)	51.5	1	%	52 - 118			SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
2-Fluorophenol (S)	33.1		%	20 - 87			SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Nitrobenzene-d5 (S)	52.3		%	27 - 139			SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Phenol-d5 (S)	22.3		%	10 - 81			SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B
Terphenyl-d14 (S)	51		%	46 - 133			SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196009**
Sample ID: **PAR-79-MP-TMW07**

Date Collected: 8/4/2016 11:50 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2,4,6-Tribromophenol (S)	74.3		%	43 - 140			SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS B
2-Fluorobiphenyl (S)	51.5		%	44 - 119			SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS B
2-Fluorophenol (S)	33.1		%	19 - 119			SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS B
Nitrobenzene-d5 (S)	52.3		%	44 - 120			SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS B
Phenol-d5 (S)	22.3		%	13 - 49			SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS B
Terphenyl-d14 (S)	51		%	50 - 134			SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS B
Library Search - SemiVolatiles											
Hexadecanoic acid	15.2	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS B
Tetradecanoic acid	15.8	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS B
Hexadecanamide	8.0	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS B
Unknown	6.7	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 23:05	CGS B
SEMIVOLATILE SIM											
Acenaphthene	0.018J	J	ug/L	0.049	0.039	0.011	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Acenaphthylene	0.16		ug/L	0.049	0.039	0.011	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Anthracene	0.081		ug/L	0.049	0.039	0.017	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Benzo(a)anthracene	0.23		ug/L	0.049	0.039	0.017	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Benzo(a)pyrene	0.28		ug/L	0.049	0.039	0.020	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Benzo(b)fluoranthene	0.29		ug/L	0.049	0.039	0.020	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Benzo(g,h,i)perylene	0.17	2	ug/L	0.049	0.039	0.037	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Benzo(k)fluoranthene	0.10		ug/L	0.049	0.039	0.025	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Chrysene	0.29		ug/L	0.049	0.039	0.017	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Dibenzo(a,h)anthracene	0.048J	J	ug/L	0.049	0.039	0.023	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
2,4-Dinitrotoluene	0.039U	U	ug/L	0.049	0.039	0.021	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
2,6-Dinitrotoluene	0.039U	U	ug/L	0.049	0.039	0.030	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Fluoranthene	0.22		ug/L	0.049	0.039	0.018	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Fluorene	0.050		ug/L	0.049	0.039	0.015	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Indeno(1,2,3-cd)pyrene	0.14		ug/L	0.049	0.049	0.040	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Naphthalene	0.062		ug/L	0.049	0.039	0.036	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Pentachlorophenol	0.98U	U	ug/L	0.98	0.98	0.18	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Phenanthrene	0.15		ug/L	0.049	0.039	0.020	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Pyrene	0.36		ug/L	0.049	0.039	0.015	8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Methylnaphthalene-d10 (S)	49.9		%	29 - 112			8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B
Fluoranthene-d10 (S)	57.6		%	45 - 130			8270 SIM	8/9/16	JTH	8/11/16 20:12	CGS B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



ALS Environmental



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196009**

Date Collected: 8/4/2016 11:50

Matrix: Water

Sample ID: **PAR-79-MP-TMW07**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196010**
Sample ID: **PAR-79-MP-TMW08**

Date Collected: 8/4/2016 11:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	7.8		ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 13:38	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 13:38	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 13:38	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 13:38	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 13:38	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196010**

Date Collected: 8/4/2016 11:45

Matrix: Water

Sample ID: **PAR-79-MP-TMW08**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Hexachlorobutadiene	0.75U	U6	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 13:38	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 13:38	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 13:38	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 13:38	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 13:38	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 13:38	DD	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	81 - 118			SW846 8260C		8/9/16 13:38	DD	D
4-Bromofluorobenzene (S)	110		%	85 - 114			SW846 8260C		8/9/16 13:38	DD	D
Dibromofluoromethane (S)	93.8		%	80 - 119			SW846 8260C		8/9/16 13:38	DD	D
Toluene-d8 (S)	96.7		%	89 - 112			SW846 8260C		8/9/16 13:38	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected

Lib Search VOC

8/9/16 13:38 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196010**
Sample ID: **PAR-79-MP-TMW08**

Date Collected: 8/4/2016 11:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	1.1U	U	ug/L	2.2	1.1	0.17	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Acenaphthylene	1.1U	U	ug/L	2.2	1.1	0.21	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Anthracene	1.1U	U	ug/L	2.2	1.1	0.17	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Benzidine	8.9U	U	ug/L	8.9	8.9	3.4	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Benzidine	33.3U	U	ug/L	33.3	33.3	3.4	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Benzo(a)anthracene	1.1U	U	ug/L	2.2	1.1	0.14	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Benzo(a)pyrene	1.1U	U	ug/L	2.2	1.1	0.24	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Benzo(b)fluoranthene	1.1U	U	ug/L	2.2	1.1	0.12	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Benzo(g,h,i)perylene	1.1U	U	ug/L	2.2	1.1	0.24	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Benzo(k)fluoranthene	1.1U	U	ug/L	2.2	1.1	0.21	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Benzyl Alcohol	2.2U	U	ug/L	8.9	2.2	0.26	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
4-Bromophenyl-phenylether	1.1U	U	ug/L	8.9	1.1	0.19	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Butylbenzylphthalate	1.1U	U	ug/L	8.9	1.1	0.12	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Carbazole	1.1U	U	ug/L	8.9	1.1	0.13	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
4-Chloro-3-methylphenol	1.1U	U	ug/L	8.9	1.1	0.21	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
4-Chloroaniline	1.1U	U	ug/L	8.9	1.1	0.23	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
bis(2-Chloroethoxy)methane	1.1U	U	ug/L	8.9	1.1	0.23	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
bis(2-Chloroethyl)ether	1.1U	U	ug/L	8.9	1.1	0.19	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
bis(2-Chloroisopropyl)ether	1.1U	U	ug/L	8.9	1.1	0.31	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
2-Chloronaphthalene	1.1U	U	ug/L	8.9	1.1	0.20	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
2-Chlorophenol	2.2U	U	ug/L	8.9	2.2	0.37	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
4-Chlorophenyl-phenylether	1.1U	U	ug/L	8.9	1.1	0.16	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Chrysene	1.1U	U	ug/L	2.2	1.1	0.13	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
mp-Cresol	1.1U	U	ug/L	8.9	1.1	0.17	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
o-Cresol	1.1U	U	ug/L	8.9	1.1	0.28	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Di-n-Butylphthalate	1.1U	U	ug/L	8.9	1.1	0.16	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Di-n-Octylphthalate	1.1U	U	ug/L	8.9	1.1	0.11	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Dibenzo(a,h)anthracene	1.1U	U	ug/L	2.2	1.1	0.23	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Dibenzofuran	1.1U	U	ug/L	8.9	1.1	0.12	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
1,2-Dichlorobenzene	1.1U	U	ug/L	8.9	1.1	0.22	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
1,3-Dichlorobenzene	1.1U	U	ug/L	8.9	1.1	0.19	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
1,4-Dichlorobenzene	1.1U	U	ug/L	8.9	1.1	0.20	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
3,3-Dichlorobenzidine	3.3U	U	ug/L	17.8	3.3	0.53	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
2,4-Dichlorophenol	1.1U	U	ug/L	8.9	1.1	0.36	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Diethylphthalate	1.1U	U	ug/L	8.9	1.1	0.20	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
2,4-Dimethylphenol	5.6U	U	ug/L	8.9	5.6	0.23	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
Dimethylphthalate	1.1U	U	ug/L	8.9	1.1	0.16	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B
2,4-Dinitrophenol	8.9U	U	ug/L	17.8	8.9	2.0	SW846 8270D	8/9/16 JTH	8/10/16 23:30	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196010**
Sample ID: **PAR-79-MP-TMW08**

Date Collected: 8/4/2016 11:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By		Analyzed		By	Cntr
2,4-Dinitrotoluene	1.1U	U	ug/L	8.9	1.1	0.13	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
2,6-Dinitrotoluene	1.1U	U	ug/L	8.9	1.1	0.23	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
1,2-Diphenylhydrazine	1.1U	U	ug/L	8.9	1.1	0.29	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
bis(2-Ethylhexyl)phthalate	1.1U	U	ug/L	8.9	1.1	0.24	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Fluoranthene	1.1U	U	ug/L	2.2	1.1	0.19	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Fluorene	1.1U	U	ug/L	2.2	1.1	0.22	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Hexachlorobenzene	1.1U	U	ug/L	8.9	1.1	0.26	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Hexachlorobutadiene	1.1U	U	ug/L	8.9	1.1	0.21	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Hexachlorocyclopentadiene	2.2U	U	ug/L	8.9	2.2	0.19	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Hexachloroethane	1.1U	U	ug/L	8.9	1.1	0.33	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Indeno(1,2,3-cd)pyrene	1.1U	U	ug/L	2.2	1.1	0.11	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Isophorone	1.1U	U	ug/L	8.9	1.1	0.17	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
2-Methyl-4,6-dinitrophenol	5.6U	U	ug/L	8.9	5.6	0.37	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
2-Methylnaphthalene	1.1U	U	ug/L	2.2	1.1	0.18	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Naphthalene	1.1U	U	ug/L	2.2	1.1	0.13	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
2-Nitroaniline	1.1U	U	ug/L	8.9	1.1	0.22	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
3-Nitroaniline	2.2U	U	ug/L	8.9	2.2	0.20	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
4-Nitroaniline	1.1U	U	ug/L	8.9	1.1	0.46	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Nitrobenzene	2.2U	U	ug/L	8.9	2.2	0.31	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
2-Nitrophenol	2.2U	U	ug/L	8.9	2.2	0.50	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
4-Nitrophenol	5.6U	U	ug/L	8.9	5.6	1.2	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
N-Nitrosodimethylamine	2.2U	U	ug/L	8.9	2.2	0.71	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
N-Nitroso-di-n-propylamine	1.1U	U	ug/L	8.9	1.1	0.27	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
N-Nitrosodiphenylamine	2.2U	U	ug/L	8.9	2.2	0.20	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Pentachlorophenol	8.9U	U	ug/L	17.8	8.9	1.2	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Phenanthrene	1.1U	U	ug/L	2.2	1.1	0.14	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Phenol	1.1U	U	ug/L	8.9	1.1	0.26	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Pyrene	1.1U	U	ug/L	2.2	1.1	0.18	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
1,2,4-Trichlorobenzene	1.1U	U	ug/L	8.9	1.1	0.14	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
2,4,5-Trichlorophenol	3.3U	U	ug/L	8.9	3.3	0.61	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
2,4,6-Trichlorophenol	1.1U	U	ug/L	8.9	1.1	0.63	SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr	
2,4,6-Tribromophenol (S)	55.5		%	47 - 128			SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
2-Fluorobiphenyl (S)	48.2	2	%	52 - 118			SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
2-Fluorophenol (S)	33.3		%	20 - 87			SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Nitrobenzene-d5 (S)	51.9		%	27 - 139			SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Phenol-d5 (S)	22.6		%	10 - 81			SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	
Terphenyl-d14 (S)	30.6	3	%	46 - 133			SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS	B	

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196010**
Sample ID: **PAR-79-MP-TMW08**

Date Collected: 8/4/2016 11:45 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2,4,6-Tribromophenol (S)	55.5		%	43 - 140			SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS B
2-Fluorobiphenyl (S)	48.2		%	44 - 119			SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS B
2-Fluorophenol (S)	33.3		%	19 - 119			SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS B
Nitrobenzene-d5 (S)	51.9		%	44 - 120			SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS B
Phenol-d5 (S)	22.6		%	13 - 49			SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS B
Terphenyl-d14 (S)	30.6	1	%	50 - 134			SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS B
Library Search - SemiVolatiles											
Pentadecanoic acid	4.6	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS B
Unknown	7.9	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS B
Unknown	7.2	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 23:30	CGS B
SEMIVOLATILE SIM											
Acenaphthene	0.044U	U	ug/L	0.056	0.044	0.012	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Acenaphthylene	0.044U	U	ug/L	0.056	0.044	0.012	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Anthracene	0.044U	U	ug/L	0.056	0.044	0.019	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Benzo(a)anthracene	0.044U	U	ug/L	0.056	0.044	0.019	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Benzo(a)pyrene	0.044U	U	ug/L	0.056	0.044	0.022	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Benzo(b)fluoranthene	0.027J	J	ug/L	0.056	0.044	0.022	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Benzo(g,h,i)perylene	0.044U	U5	ug/L	0.056	0.044	0.042	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Benzo(k)fluoranthene	0.044U	U	ug/L	0.056	0.044	0.028	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Chrysene	0.029J	J	ug/L	0.056	0.044	0.019	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Dibenzo(a,h)anthracene	0.044U	U	ug/L	0.056	0.044	0.026	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
2,4-Dinitrotoluene	0.044U	U	ug/L	0.056	0.044	0.023	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
2,6-Dinitrotoluene	0.044U	U	ug/L	0.056	0.044	0.034	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Fluoranthene	0.038J	J	ug/L	0.056	0.044	0.020	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Fluorene	0.044U	U	ug/L	0.056	0.044	0.017	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Indeno(1,2,3-cd)pyrene	0.056U	U	ug/L	0.056	0.056	0.046	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Naphthalene	0.044U	U	ug/L	0.056	0.044	0.041	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Pentachlorophenol	1.1U	U	ug/L	1.1	1.1	0.20	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Phenanthrene	0.038J	J	ug/L	0.056	0.044	0.022	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Pyrene	0.050J	J	ug/L	0.056	0.044	0.017	8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Methylnaphthalene-d10 (S)	47.2		%	29 - 112			8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B
Fluoranthene-d10 (S)	40.7	4	%	45 - 130			8270 SIM	8/9/16	JTH	8/11/16 19:46	CGS B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



ALS Environmental



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196010**

Date Collected: 8/4/2016 11:45

Matrix: Water

Sample ID: **PAR-79-MP-TMW08**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196011**

Date Collected: 8/4/2016 13:15

Matrix: Water

Sample ID: **PAR-79-MP-TMW09**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	3.7J	J	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 14:00	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 14:00	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 14:00	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 14:00	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 14:00	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196011**

Date Collected: 8/4/2016 13:15

Matrix: Water

Sample ID: **PAR-79-MP-TMW09**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Hexachlorobutadiene	0.75U	U5	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 14:00	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 14:00	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 14:00	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 14:00	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 14:00	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 14:00	DD	D
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	105		%	81 - 118			SW846 8260C		8/9/16 14:00	DD	D
4-Bromofluorobenzene (S)	112		%	85 - 114			SW846 8260C		8/9/16 14:00	DD	D
Dibromofluoromethane (S)	96.6		%	80 - 119			SW846 8260C		8/9/16 14:00	DD	D
Toluene-d8 (S)	97.9		%	89 - 112			SW846 8260C		8/9/16 14:00	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected

Lib Search VOC

8/9/16 14:00 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196011**

Date Collected: 8/4/2016 13:15

Matrix: Water

Sample ID: **PAR-79-MP-TMW09**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	1.1U	U	ug/L	2.1	1.1	0.16	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Acenaphthylene	1.1U	U	ug/L	2.1	1.1	0.20	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Anthracene	1.1U	U	ug/L	2.1	1.1	0.16	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Benzidine	8.6U	U	ug/L	8.6	8.6	3.3	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Benzidine	32.1U	U	ug/L	32.1	32.1	3.3	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Benzo(a)anthracene	0.18J	J	ug/L	2.1	1.1	0.14	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Benzo(a)pyrene	1.1U	U	ug/L	2.1	1.1	0.24	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Benzo(b)fluoranthene	1.1U	U	ug/L	2.1	1.1	0.12	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Benzo(g,h,i)perylene	1.1U	U	ug/L	2.1	1.1	0.24	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Benzo(k)fluoranthene	1.1U	U	ug/L	2.1	1.1	0.20	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Benzyl Alcohol	2.1U	U	ug/L	8.6	2.1	0.25	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
4-Bromophenyl-phenylether	1.1U	U	ug/L	8.6	1.1	0.18	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Butylbenzylphthalate	0.12J	J	ug/L	8.6	1.1	0.12	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Carbazole	1.1U	U	ug/L	8.6	1.1	0.13	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
4-Chloro-3-methylphenol	1.1U	U	ug/L	8.6	1.1	0.20	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
4-Chloroaniline	1.1U	U	ug/L	8.6	1.1	0.22	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
bis(2-Chloroethoxy)methane	1.1U	U	ug/L	8.6	1.1	0.22	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
bis(2-Chloroethyl)ether	1.1U	U	ug/L	8.6	1.1	0.18	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
bis(2-Chloroisopropyl)ether	1.1U	U	ug/L	8.6	1.1	0.30	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
2-Chloronaphthalene	1.1U	U	ug/L	8.6	1.1	0.19	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
2-Chlorophenol	2.1U	U	ug/L	8.6	2.1	0.35	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
4-Chlorophenyl-phenylether	1.1U	U	ug/L	8.6	1.1	0.15	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Chrysene	1.1U	U	ug/L	2.1	1.1	0.13	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
mp-Cresol	1.1U	U	ug/L	8.6	1.1	0.16	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
o-Cresol	1.1U	U	ug/L	8.6	1.1	0.27	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Di-n-Butylphthalate	1.1U	U	ug/L	8.6	1.1	0.15	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Di-n-Octylphthalate	1.1U	U	ug/L	8.6	1.1	0.11	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Dibenzo(a,h)anthracene	1.1U	U	ug/L	2.1	1.1	0.22	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Dibenzofuran	1.1U	U	ug/L	8.6	1.1	0.12	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
1,2-Dichlorobenzene	1.1U	U	ug/L	8.6	1.1	0.21	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
1,3-Dichlorobenzene	1.1U	U	ug/L	8.6	1.1	0.18	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
1,4-Dichlorobenzene	1.1U	U	ug/L	8.6	1.1	0.19	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
3,3-Dichlorobenzidine	3.2U	U	ug/L	17.1	3.2	0.51	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
2,4-Dichlorophenol	1.1U	U	ug/L	8.6	1.1	0.34	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Diethylphthalate	1.1U	U	ug/L	8.6	1.1	0.19	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
2,4-Dimethylphenol	5.3U	U	ug/L	8.6	5.3	0.22	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
Dimethylphthalate	1.1U	U	ug/L	8.6	1.1	0.15	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B
2,4-Dinitrophenol	8.6U	U	ug/L	17.1	8.6	1.9	SW846 8270D	8/9/16 JTH	8/10/16 23:55	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196011**

Date Collected: 8/4/2016 13:15

Matrix: Water

Sample ID: **PAR-79-MP-TMW09**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By		Analyzed		By	Cntr
2,4-Dinitrotoluene	1.1U	U	ug/L	8.6	1.1	0.13	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
2,6-Dinitrotoluene	1.1U	U	ug/L	8.6	1.1	0.22	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
1,2-Diphenylhydrazine	1.1U	U	ug/L	8.6	1.1	0.28	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
bis(2-Ethylhexyl)phthalate	1.1U	U	ug/L	8.6	1.1	0.24	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Fluoranthene	1.1U	U	ug/L	2.1	1.1	0.18	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Fluorene	1.1U	U	ug/L	2.1	1.1	0.21	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Hexachlorobenzene	1.1U	U	ug/L	8.6	1.1	0.25	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Hexachlorobutadiene	1.1U	U	ug/L	8.6	1.1	0.20	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Hexachlorocyclopentadiene	2.1U	U	ug/L	8.6	2.1	0.18	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Hexachloroethane	1.1U	U	ug/L	8.6	1.1	0.32	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Indeno(1,2,3-cd)pyrene	1.1U	U	ug/L	2.1	1.1	0.11	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Isophorone	1.1U	U	ug/L	8.6	1.1	0.16	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
2-Methyl-4,6-dinitrophenol	5.3U	U	ug/L	8.6	5.3	0.35	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
2-Methylnaphthalene	1.1U	U	ug/L	2.1	1.1	0.17	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Naphthalene	1.1U	U	ug/L	2.1	1.1	0.13	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
2-Nitroaniline	1.1U	U	ug/L	8.6	1.1	0.21	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
3-Nitroaniline	2.1U	U	ug/L	8.6	2.1	0.19	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
4-Nitroaniline	1.1U	U	ug/L	8.6	1.1	0.44	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Nitrobenzene	2.1U	U	ug/L	8.6	2.1	0.30	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
2-Nitrophenol	2.1U	U	ug/L	8.6	2.1	0.48	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
4-Nitrophenol	5.3U	U	ug/L	8.6	5.3	1.1	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
N-Nitrosodimethylamine	2.1U	U	ug/L	8.6	2.1	0.68	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
N-Nitroso-di-n-propylamine	1.1U	U	ug/L	8.6	1.1	0.26	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
N-Nitrosodiphenylamine	2.1U	U	ug/L	8.6	2.1	0.19	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Pentachlorophenol	8.6U	U	ug/L	17.1	8.6	1.1	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Phenanthrene	1.1U	U	ug/L	2.1	1.1	0.14	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Phenol	1.1U	U	ug/L	8.6	1.1	0.25	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Pyrene	1.1U	U	ug/L	2.1	1.1	0.17	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
1,2,4-Trichlorobenzene	1.1U	U	ug/L	8.6	1.1	0.14	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
2,4,5-Trichlorophenol	3.2U	U	ug/L	8.6	3.2	0.59	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
2,4,6-Trichlorophenol	1.1U	U	ug/L	8.6	1.1	0.61	SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr	
2,4,6-Tribromophenol (S)	61.9		%	47 - 128			SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
2-Fluorobiphenyl (S)	52.7		%	52 - 118			SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
2-Fluorophenol (S)	37.8		%	20 - 87			SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Nitrobenzene-d5 (S)	56.6		%	27 - 139			SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Phenol-d5 (S)	26.4		%	10 - 81			SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	
Terphenyl-d14 (S)	34.7	2	%	46 - 133			SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B	

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196011**

Date Collected: 8/4/2016 13:15

Matrix: Water

Sample ID: **PAR-79-MP-TMW09**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr	
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	61.9		%	43 - 140			SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B
2-Fluorobiphenyl (S)	52.7		%	44 - 119			SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B
2-Fluorophenol (S)	37.8		%	19 - 119			SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B
Nitrobenzene-d5 (S)	56.6		%	44 - 120			SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B
Phenol-d5 (S)	26.4		%	13 - 49			SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B
Terphenyl-d14 (S)	34.7	1	%	50 - 134			SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B
Library Search - SemiVolatiles												
Hexadecanoic acid	20.9	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B
Octadecanoic acid	36.6	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B
Unknown	12.5	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B
Hexatriacontane	8.4	J N	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B
Unknown	18.4	J	ug/L				SW846 8270D	8/9/16	JTH	8/10/16 23:55	CGS	B
SEMIVOLATILE SIM												
Acenaphthene	0.043U	U	ug/L	0.053	0.043	0.012	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Acenaphthylene	0.025J	J	ug/L	0.053	0.043	0.012	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Anthracene	0.043U	U	ug/L	0.053	0.043	0.018	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Benzo(a)anthracene	0.076		ug/L	0.053	0.043	0.018	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Benzo(a)pyrene	0.081		ug/L	0.053	0.043	0.021	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Benzo(b)fluoranthene	0.12		ug/L	0.053	0.043	0.021	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Benzo(g,h,i)perylene	0.046J	J4	ug/L	0.053	0.043	0.041	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Benzo(k)fluoranthene	0.042J	J	ug/L	0.053	0.043	0.027	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Chrysene	0.10		ug/L	0.053	0.043	0.018	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Dibenzo(a,h)anthracene	0.043U	U	ug/L	0.053	0.043	0.025	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
2,4-Dinitrotoluene	0.043U	U	ug/L	0.053	0.043	0.022	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
2,6-Dinitrotoluene	0.043U	U	ug/L	0.053	0.043	0.033	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Fluoranthene	0.13		ug/L	0.053	0.043	0.019	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Fluorene	0.018J	J	ug/L	0.053	0.043	0.016	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Indeno(1,2,3-cd)pyrene	0.047J	J	ug/L	0.053	0.053	0.044	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Naphthalene	0.043U	U	ug/L	0.053	0.043	0.040	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Pentachlorophenol	1.1U	U	ug/L	1.1	1.1	0.19	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Phenanthrene	0.093		ug/L	0.053	0.043	0.021	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Pyrene	0.14		ug/L	0.053	0.043	0.016	8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2-Methylnapthalene-d10 (S)	51.7		%	29 - 112			8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B
Fluoranthene-d10 (S)	41.5	3	%	45 - 130			8270 SIM	8/9/16	JTH	8/11/16 20:38	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



ALS Environmental



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196011**

Date Collected: 8/4/2016 13:15

Matrix: Water

Sample ID: **PAR-79-MP-TMW09**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196012**

Date Collected: 8/4/2016 15:00

Matrix: Water

Sample ID: **PAR-79-EB-08042016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	3.3J	J	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 11:04	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 11:04	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 11:04	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 11:04	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 11:04	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196012**

Date Collected: 8/4/2016 15:00

Matrix: Water

Sample ID: **PAR-79-EB-08042016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Hexachlorobutadiene	0.75U	U2	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 11:04	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 11:04	DD	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 11:04	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 11:04	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 11:04	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 11:04	DD	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	81 - 118			SW846 8260C		8/9/16 11:04	DD	D
4-Bromofluorobenzene (S)	112		%	85 - 114			SW846 8260C		8/9/16 11:04	DD	D
Dibromofluoromethane (S)	94.4		%	80 - 119			SW846 8260C		8/9/16 11:04	DD	D
Toluene-d8 (S)	98		%	89 - 112			SW846 8260C		8/9/16 11:04	DD	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected

Lib Search VOC

8/9/16 11:04 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196012**

Date Collected: 8/4/2016 15:00

Matrix: Water

Sample ID: **PAR-79-EB-08042016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	1.0U	U	ug/L	2.1	1.0	0.16	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Acenaphthylene	1.0U	U	ug/L	2.1	1.0	0.20	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Anthracene	1.0U	U	ug/L	2.1	1.0	0.16	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Benzidine	8.3U	U	ug/L	8.3	8.3	3.2	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Benzidine	31.1U	U	ug/L	31.1	31.1	3.2	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Benzo(a)anthracene	1.0U	U	ug/L	2.1	1.0	0.13	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Benzo(a)pyrene	1.0U	U	ug/L	2.1	1.0	0.23	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Benzo(b)fluoranthene	1.0U	U	ug/L	2.1	1.0	0.11	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Benzo(g,h,i)perylene	1.0U	U	ug/L	2.1	1.0	0.23	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Benzo(k)fluoranthene	1.0U	U	ug/L	2.1	1.0	0.20	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Benzyl Alcohol	2.1U	U	ug/L	8.3	2.1	0.24	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
4-Bromophenyl-phenylether	1.0U	U	ug/L	8.3	1.0	0.18	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Butylbenzylphthalate	1.0U	U	ug/L	8.3	1.0	0.11	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Carbazole	1.0U	U	ug/L	8.3	1.0	0.12	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
4-Chloro-3-methylphenol	1.0U	U	ug/L	8.3	1.0	0.20	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
4-Chloroaniline	1.0U	U	ug/L	8.3	1.0	0.22	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
bis(2-Chloroethoxy)methane	1.0U	U	ug/L	8.3	1.0	0.22	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
bis(2-Chloroethyl)ether	1.0U	U	ug/L	8.3	1.0	0.18	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
bis(2-Chloroisopropyl)ether	1.0U	U	ug/L	8.3	1.0	0.29	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
2-Chloronaphthalene	1.0U	U	ug/L	8.3	1.0	0.19	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
2-Chlorophenol	2.1U	U	ug/L	8.3	2.1	0.34	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
4-Chlorophenyl-phenylether	1.0U	U	ug/L	8.3	1.0	0.15	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Chrysene	1.0U	U	ug/L	2.1	1.0	0.12	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
mp-Cresol	1.0U	U	ug/L	8.3	1.0	0.16	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
o-Cresol	1.0U	U	ug/L	8.3	1.0	0.26	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Di-n-Butylphthalate	1.0U	U	ug/L	8.3	1.0	0.15	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Di-n-Octylphthalate	1.0U	U	ug/L	8.3	1.0	0.10	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Dibenzo(a,h)anthracene	1.0U	U	ug/L	2.1	1.0	0.22	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Dibenzofuran	1.0U	U	ug/L	8.3	1.0	0.11	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
1,2-Dichlorobenzene	1.0U	U	ug/L	8.3	1.0	0.21	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
1,3-Dichlorobenzene	1.0U	U	ug/L	8.3	1.0	0.18	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
1,4-Dichlorobenzene	1.0U	U	ug/L	8.3	1.0	0.19	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
3,3-Dichlorobenzidine	3.1U	U	ug/L	16.6	3.1	0.50	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
2,4-Dichlorophenol	1.0U	U	ug/L	8.3	1.0	0.33	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Diethylphthalate	1.0U	U	ug/L	8.3	1.0	0.19	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
2,4-Dimethylphenol	5.2U	U	ug/L	8.3	5.2	0.22	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
Dimethylphthalate	1.0U	U	ug/L	8.3	1.0	0.15	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B
2,4-Dinitrophenol	8.3U	U	ug/L	16.6	8.3	1.9	SW846 8270D	8/9/16 JTH	8/11/16 00:19	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196012**

Date Collected: 8/4/2016 15:00

Matrix: Water

Sample ID: **PAR-79-EB-08042016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By		Analyzed	By	Cntr
2,4-Dinitrotoluene	1.0U	U	ug/L	8.3	1.0	0.12	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
2,6-Dinitrotoluene	1.0U	U	ug/L	8.3	1.0	0.22	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
1,2-Diphenylhydrazine	1.0U	U	ug/L	8.3	1.0	0.27	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
bis(2-Ethylhexyl)phthalate	1.0U	U	ug/L	8.3	1.0	0.23	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Fluoranthene	1.0U	U	ug/L	2.1	1.0	0.18	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Fluorene	1.0U	U	ug/L	2.1	1.0	0.21	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Hexachlorobenzene	1.0U	U	ug/L	8.3	1.0	0.24	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Hexachlorobutadiene	1.0U	U	ug/L	8.3	1.0	0.20	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Hexachlorocyclopentadiene	2.1U	U	ug/L	8.3	2.1	0.18	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Hexachloroethane	1.0U	U	ug/L	8.3	1.0	0.31	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Indeno(1,2,3-cd)pyrene	1.0U	U	ug/L	2.1	1.0	0.10	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Isophorone	1.0U	U	ug/L	8.3	1.0	0.16	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
2-Methyl-4,6-dinitrophenol	5.2U	U	ug/L	8.3	5.2	0.34	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
2-Methylnaphthalene	1.0U	U	ug/L	2.1	1.0	0.17	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Naphthalene	1.0U	U	ug/L	2.1	1.0	0.12	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
2-Nitroaniline	1.0U	U	ug/L	8.3	1.0	0.21	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
3-Nitroaniline	2.1U	U	ug/L	8.3	2.1	0.19	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
4-Nitroaniline	1.0U	U	ug/L	8.3	1.0	0.42	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Nitrobenzene	2.1U	U	ug/L	8.3	2.1	0.29	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
2-Nitrophenol	2.1U	U	ug/L	8.3	2.1	0.47	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
4-Nitrophenol	5.2U	U	ug/L	8.3	5.2	1.1	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
N-Nitrosodimethylamine	2.1U	U	ug/L	8.3	2.1	0.66	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
N-Nitroso-di-n-propylamine	1.0U	U	ug/L	8.3	1.0	0.25	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
N-Nitrosodiphenylamine	2.1U	U	ug/L	8.3	2.1	0.19	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Pentachlorophenol	8.3U	U	ug/L	16.6	8.3	1.1	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Phenanthrene	1.0U	U	ug/L	2.1	1.0	0.13	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Phenol	1.0U	U	ug/L	8.3	1.0	0.24	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Pyrene	1.0U	U	ug/L	2.1	1.0	0.17	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
1,2,4-Trichlorobenzene	1.0U	U	ug/L	8.3	1.0	0.13	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
2,4,5-Trichlorophenol	3.1U	U	ug/L	8.3	3.1	0.57	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
2,4,6-Trichlorophenol	1.0U	U	ug/L	8.3	1.0	0.59	SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	71.3		%	47 - 128			SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
2-Fluorobiphenyl (S)	64.3		%	52 - 118			SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
2-Fluorophenol (S)	45.9		%	20 - 87			SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Nitrobenzene-d5 (S)	66.8		%	27 - 139			SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Phenol-d5 (S)	30.5		%	10 - 81			SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B
Terphenyl-d14 (S)	71.8		%	46 - 133			SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196012**

Date Collected: 8/4/2016 15:00

Matrix: Water

Sample ID: **PAR-79-EB-08042016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2,4,6-Tribromophenol (S)	71.3		%	43 - 140			SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS B
2-Fluorobiphenyl (S)	64.3		%	44 - 119			SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS B
2-Fluorophenol (S)	45.9		%	19 - 119			SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS B
Nitrobenzene-d5 (S)	66.8		%	44 - 120			SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS B
Phenol-d5 (S)	30.5		%	13 - 49			SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS B
Terphenyl-d14 (S)	71.8		%	50 - 134			SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS B
Library Search - SemiVolatiles											
Unknown	10.2	J	ug/L				SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS B
Unknown	8.5	J	ug/L				SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS B
Unknown	15.9	J	ug/L				SW846 8270D	8/9/16	JTH	8/11/16 00:19	CGS B
SEMIVOLATILE SIM											
Acenaphthene	0.041U	U	ug/L	0.052	0.041	0.011	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Acenaphthylene	0.041U	U	ug/L	0.052	0.041	0.011	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Anthracene	0.041U	U	ug/L	0.052	0.041	0.018	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Benzo(a)anthracene	0.041U	U	ug/L	0.052	0.041	0.018	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Benzo(a)pyrene	0.041U	U	ug/L	0.052	0.041	0.021	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Benzo(b)fluoranthene	0.041U	U	ug/L	0.052	0.041	0.021	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Benzo(g,h,i)perylene	0.041U	U1	ug/L	0.052	0.041	0.039	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Benzo(k)fluoranthene	0.041U	U	ug/L	0.052	0.041	0.026	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Chrysene	0.041U	U	ug/L	0.052	0.041	0.018	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Dibenzo(a,h)anthracene	0.041U	U	ug/L	0.052	0.041	0.024	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
2,4-Dinitrotoluene	0.041U	U	ug/L	0.052	0.041	0.022	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
2,6-Dinitrotoluene	0.041U	U	ug/L	0.052	0.041	0.032	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Fluoranthene	0.041U	U	ug/L	0.052	0.041	0.019	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Fluorene	0.035J	J	ug/L	0.052	0.041	0.016	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Indeno(1,2,3-cd)pyrene	0.052U	U	ug/L	0.052	0.052	0.042	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Naphthalene	0.041U	U	ug/L	0.052	0.041	0.038	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Pentachlorophenol	1.0U	U	ug/L	1.0	1.0	0.19	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Phenanthrene	0.047J	J	ug/L	0.052	0.041	0.021	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Pyrene	0.041U	U	ug/L	0.052	0.041	0.016	8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
2-Methylnaphthalene-d10 (S)	62.7		%	29 - 112			8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B
Fluoranthene-d10 (S)	75.1		%	45 - 130			8270 SIM	8/9/16	JTH	8/11/16 21:30	CGS B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



ALS Environmental



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196012**

Date Collected: 8/4/2016 15:00

Matrix: Water

Sample ID: **PAR-79-EB-08042016**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196013**

Date Collected: 8/4/2016 14:05

Matrix: Water

Sample ID: **PAR-79-490-TMW03**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	11.4		ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 17:40	DD	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		8/9/16 17:40	DD	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 17:40	DD	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		8/9/16 17:40	DD	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
sec-Butylbenzene	6.0		ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 17:40	DD	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196013**

Date Collected: 8/4/2016 14:05

Matrix: Water

Sample ID: **PAR-79-490-TMW03**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Hexachlorobutadiene	0.75U	U4	ug/L	1.0	0.75	0.43	SW846 8260C		8/9/16 17:40	DD	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 17:40	DD	D
Isopropylbenzene	0.41J	J	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		8/9/16 17:40	DD	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Naphthalene	7.7		ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
n-Propylbenzene	0.61J	J	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,1,2-Trichloroethane	2.7		ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		8/9/16 17:40	DD	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		8/9/16 17:40	DD	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		8/9/16 17:40	DD	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	105		%	81 - 118			SW846 8260C		8/9/16 17:40	DD	D
4-Bromofluorobenzene (S)	111		%	85 - 114			SW846 8260C		8/9/16 17:40	DD	D
Dibromofluoromethane (S)	98.2		%	80 - 119			SW846 8260C		8/9/16 17:40	DD	D
Toluene-d8 (S)	98.5		%	89 - 112			SW846 8260C		8/9/16 17:40	DD	D
Library Search - Volatiles											
Benzene, 1,3-diethyl-	8.6	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D
Benzene, 2-ethyl-1,3-dimethyl-	14.7	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196013**
Sample ID: **PAR-79-490-TMW03**

Date Collected: 8/4/2016 14:05 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2,3-Dihydro-1-methylindene	8.5	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D
Benzene, 1-methyl-2-(1-methyle	10.4	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D
Benzene, 2-ethenyl-1,3-dimethy	12.2	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D
2,3-Dihydro-1-methylindene	32.4	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D
1H-Indene, 2,3-dihydro-1,2-dim	8.7	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D
1H-Indene, 2,3-dihydro-4,6-dim	12.2	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D
1H-Indene, 2,3-dihydro-1,6-dim	19.1	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D
Naphthalene, 1,2,3,4-tetrahydr	12.8	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D
4-Ethylindan	5.7	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D
1H-Indene, 2,3-dihydro-4,7-dim	8.1	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D
Benzene, (2-methyl-1-butenyl)-	16.6	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D
Naphthalene, 1,2,3,4-tetrahydr	9.5	J N	ug/L				SW846 8260C		8/9/16 17:40	DD	D
SEMIVOLATILES											
Acenaphthene	0.93U	U	ug/L	1.9	0.93	0.14	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Acenaphthylene	0.93U	U	ug/L	1.9	0.93	0.18	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Anthracene	8.2		ug/L	1.9	0.93	0.14	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Benzidine	27.8U	U	ug/L	27.8	27.8	2.9	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Benzidine	7.4U	U	ug/L	7.4	7.4	2.9	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Benzo(a)anthracene	0.93U	U	ug/L	1.9	0.93	0.12	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Benzo(a)pyrene	0.93U	U	ug/L	1.9	0.93	0.20	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Benzo(b)fluoranthene	0.93U	U	ug/L	1.9	0.93	0.10	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Benzo(g,h,i)perylene	0.93U	U	ug/L	1.9	0.93	0.20	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Benzo(k)fluoranthene	0.93U	U	ug/L	1.9	0.93	0.18	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Benzyl Alcohol	1.9U	U	ug/L	7.4	1.9	0.21	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
4-Bromophenyl-phenylether	0.93U	U	ug/L	7.4	0.93	0.16	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Butylbenzylphthalate	0.93U	U	ug/L	7.4	0.93	0.10	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Carbazole	0.93U	U	ug/L	7.4	0.93	0.11	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
4-Chloro-3-methylphenol	0.93U	U	ug/L	7.4	0.93	0.18	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
4-Chloroaniline	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
bis(2-Chloroethoxy)methane	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
bis(2-Chloroethyl)ether	0.93U	U	ug/L	7.4	0.93	0.16	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
bis(2-Chloroisopropyl)ether	0.93U	U	ug/L	7.4	0.93	0.26	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196013**

Date Collected: 8/4/2016 14:05

Matrix: Water

Sample ID: **PAR-79-490-TMW03**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2-Chloronaphthalene	0.93U	U	ug/L	7.4	0.93	0.17	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2-Chlorophenol	1.9U	U	ug/L	7.4	1.9	0.31	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
4-Chlorophenyl-phenylether	0.93U	U	ug/L	7.4	0.93	0.13	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Chrysene	0.93U	U	ug/L	1.9	0.93	0.11	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
mp-Cresol	0.93U	U	ug/L	7.4	0.93	0.14	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
o-Cresol	0.93U	U	ug/L	7.4	0.93	0.23	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Di-n-Butylphthalate	0.93U	U	ug/L	7.4	0.93	0.13	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Di-n-Octylphthalate	0.93U	U	ug/L	7.4	0.93	0.093	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Dibenzo(a,h)anthracene	0.93U	U	ug/L	1.9	0.93	0.19	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Dibenzofuran	0.93U	U	ug/L	7.4	0.93	0.10	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
1,2-Dichlorobenzene	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
1,3-Dichlorobenzene	0.93U	U	ug/L	7.4	0.93	0.16	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
1,4-Dichlorobenzene	0.93U	U	ug/L	7.4	0.93	0.17	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
3,3-Dichlorobenzidine	2.8U	U	ug/L	14.8	2.8	0.44	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2,4-Dichlorophenol	0.93U	U	ug/L	7.4	0.93	0.30	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Diethylphthalate	0.93U	U	ug/L	7.4	0.93	0.17	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2,4-Dimethylphenol	4.6U	U	ug/L	7.4	4.6	0.19	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Dimethylphthalate	0.93U	U	ug/L	7.4	0.93	0.13	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2,4-Dinitrophenol	7.4U	U	ug/L	14.8	7.4	1.7	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2,4-Dinitrotoluene	0.93U	U	ug/L	7.4	0.93	0.11	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2,6-Dinitrotoluene	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
1,2-Diphenylhydrazine	0.93U	U	ug/L	7.4	0.93	0.24	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
bis(2-Ethylhexyl)phthalate	0.93U	U	ug/L	7.4	0.93	0.20	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Fluoranthene	0.93U	U	ug/L	1.9	0.93	0.16	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Fluorene	0.93U	U	ug/L	1.9	0.93	0.19	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Hexachlorobenzene	0.93U	U	ug/L	7.4	0.93	0.21	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Hexachlorobutadiene	0.93U	U	ug/L	7.4	0.93	0.18	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Hexachlorocyclopentadiene	1.9U	U	ug/L	7.4	1.9	0.16	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Hexachloroethane	0.93U	U	ug/L	7.4	0.93	0.28	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Indeno(1,2,3-cd)pyrene	0.93U	U	ug/L	1.9	0.93	0.093	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Isophorone	0.93U	U	ug/L	7.4	0.93	0.14	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2-Methyl-4,6-dinitrophenol	4.6U	U	ug/L	7.4	4.6	0.31	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2-Methylnaphthalene	63.5		ug/L	1.9	0.93	0.15	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Naphthalene	0.93U	U	ug/L	1.9	0.93	0.11	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2-Nitroaniline	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
3-Nitroaniline	1.9U	U	ug/L	7.4	1.9	0.17	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
4-Nitroaniline	0.93U	U	ug/L	7.4	0.93	0.38	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Nitrobenzene	1.9U	U	ug/L	7.4	1.9	0.26	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196013**
Sample ID: **PAR-79-490-TMW03**

Date Collected: 8/4/2016 14:05 Matrix: Water
Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2-Nitrophenol	1.9U	U	ug/L	7.4	1.9	0.42	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
4-Nitrophenol	4.6U	U	ug/L	7.4	4.6	0.97	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
N-Nitrosodimethylamine	1.9U	U	ug/L	7.4	1.9	0.59	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
N-Nitroso-di-n-propylamine	0.93U	U	ug/L	7.4	0.93	0.22	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
N-Nitrosodiphenylamine	1.9U	U	ug/L	7.4	1.9	0.17	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Pentachlorophenol	7.4U	U	ug/L	14.8	7.4	0.99	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Phenanthrene	72.4		ug/L	1.9	0.93	0.12	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Phenol	0.93U	U	ug/L	7.4	0.93	0.21	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Pyrene	7.1		ug/L	1.9	0.93	0.15	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
1,2,4-Trichlorobenzene	0.93U	U	ug/L	7.4	0.93	0.12	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2,4,5-Trichlorophenol	2.8U	U	ug/L	7.4	2.8	0.51	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2,4,6-Trichlorophenol	0.93U	U	ug/L	7.4	0.93	0.53	SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	61.7		%	47 - 128			SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2-Fluorobiphenyl (S)	45.5	2	%	52 - 118			SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2-Fluorophenol (S)	33.2		%	20 - 87			SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Nitrobenzene-d5 (S)	65.8		%	27 - 139			SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Phenol-d5 (S)	22.1		%	10 - 81			SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Terphenyl-d14 (S)	26.5	3	%	46 - 133			SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	61.7		%	43 - 140			SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2-Fluorobiphenyl (S)	45.5		%	44 - 119			SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
2-Fluorophenol (S)	33.2		%	19 - 119			SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Nitrobenzene-d5 (S)	65.8		%	44 - 120			SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Phenol-d5 (S)	22.1		%	13 - 49			SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Terphenyl-d14 (S)	26.5	1	%	50 - 134			SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Library Search - SemiVolatiles											
Unknown	42.7	J	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Unknown	68.9	J	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Unknown	77.3	J	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Naphthalene, 1,6-dimethyl-	83.4	J N	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Naphthalene, 1,3-dimethyl-	113	J N	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Unknown	87.7	J	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Undecane	158	J N	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Naphthalene, 1,4,6-trimethyl-	67.8	J N	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Naphthalene, 1,6,7-trimethyl-	63.7	J N	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Naphthalene, 1,4,5-trimethyl-	78.8	J N	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

Lab ID: **2165196013**

Date Collected: 8/4/2016 14:05

Matrix: Water

Sample ID: **PAR-79-490-TMW03**

Date Received: 8/5/2016 20:25

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Naphthalene, 2,3,6-trimethyl-	83.9	J N	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Unknown	93.1	J	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Tridecane	123	J N	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Hexadecane, 2,6,10,14-tetramet	97.4	J N	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B
Phenanthrene, 4-methyl-	84.4	J N	ug/L				SW846 8270D	8/9/16 JTH	8/11/16 00:45	CGS	B



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2165196001	2	PAR-79-MP-TMW01	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 27.6 and the control limits were 50 to 134. This result was reported at a dilution of 1.				
2165196001	3	PAR-79-MP-TMW01	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 27.6 and the control limits were 46 to 133. This result was reported at a dilution of 1.				
2165196001	4	PAR-79-MP-TMW01	8270 SIM	Fluoranthene-d10
The surrogate Fluoranthene-d10 for method 8270 SIM was outside of control limits. The % Recovery was reported as 34.1 and the control limits were 45 to 130. This result was reported at a dilution of 1.				
2165196001	5	PAR-79-MP-TMW01	8270 SIM	Benzo(g,h,i)perylene
The Method Blank for method 8270 SIM reported a value greater than the reporting level for the analyte Benzo(g,h,i)perylene.				
2165196002	1	PAR-79-MP-TMW02	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 31.1 and the control limits were 44 to 119. This result was reported at a dilution of 1.				
2165196002	2	PAR-79-MP-TMW02	SW846 8270D	2,4,6-Tribromophenol
The surrogate 2,4,6-Tribromophenol for method SW846 8270D was outside of control limits. The % Recovery was reported as 35.6 and the control limits were 43 to 140. This result was reported at a dilution of 1.				
2165196002	3	PAR-79-MP-TMW02	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 20.6 and the control limits were 50 to 134. This result was reported at a dilution of 1.				
2165196002	4	PAR-79-MP-TMW02	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 31.1 and the control limits were 52 to 118. This result was reported at a dilution of 1.				
2165196002	5	PAR-79-MP-TMW02	SW846 8270D	2,4,6-Tribromophenol
The surrogate 2,4,6-Tribromophenol for method SW846 8270D was outside of control limits. The % Recovery was reported as 35.6 and the control limits were 47 to 128. This result was reported at a dilution of 1.				
2165196002	6	PAR-79-MP-TMW02	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 20.6 and the control limits were 46 to 133. This result was reported at a dilution of 1.				
2165196002	7	PAR-79-MP-TMW02	8270 SIM	2-Methylnaphthalene-d10
The surrogate 2-Methylnaphthalene-d10 for method 8270 SIM was outside of control limits. The % Recovery was reported as 28.7 and the control limits were 29 to 112. This result was reported at a dilution of 1.				
2165196002	8	PAR-79-MP-TMW02	8270 SIM	Fluoranthene-d10
The surrogate Fluoranthene-d10 for method 8270 SIM was outside of control limits. The % Recovery was reported as 26.5 and the control limits were 45 to 130. This result was reported at a dilution of 1.				
2165196002	9	PAR-79-MP-TMW02	8270 SIM	Benzo(g,h,i)perylene
The Method Blank for method 8270 SIM reported a value greater than the reporting level for the analyte Benzo(g,h,i)perylene.				
2165196002	10	PAR-79-MP-TMW02	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165196002	E	PAR-79-MP-TMW02	8270 SIM	Phenanthrene
Result reported exceeds instrument calibration				
2165196002	E	PAR-79-MP-TMW02	8270 SIM	Naphthalene
Result reported exceeds instrument calibration				
2165196003	1	PAR-79-EB-08032016	8270 SIM	Benzo(g,h,i)perylene
The Method Blank for method 8270 SIM reported a value greater than the reporting level for the analyte Benzo(g,h,i)perylene.				
2165196005	1	PAR-79-MP-TMW03	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 36.1 and the control limits were 50 to 134. This result was reported at a dilution of 1.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

2165196005	2	PAR-79-MP-TMW03	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 36.1 and the control limits were 46 to 133. This result was reported at a dilution of 1.				
2165196005	3	PAR-79-MP-TMW03	8270 SIM	Fluoranthene-d10
The surrogate Fluoranthene-d10 for method 8270 SIM was outside of control limits. The % Recovery was reported as 38.8 and the control limits were 45 to 130. This result was reported at a dilution of 1.				
2165196005	4	PAR-79-MP-TMW03	8270 SIM	Benzo(g,h,i)perylene
The Method Blank for method 8270 SIM reported a value greater than the reporting level for the analyte Benzo(g,h,i)perylene.				
2165196005	5	PAR-79-MP-TMW03	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165196006	1	PAR-79-MP-TMW04	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 46.2 and the control limits were 50 to 134. This result was reported at a dilution of 1.				
2165196006	2	PAR-79-MP-TMW04	8270 SIM	Benzo(g,h,i)perylene
The Method Blank for method 8270 SIM reported a value greater than the reporting level for the analyte Benzo(g,h,i)perylene.				
2165196006	3	PAR-79-MP-TMW04	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165196007	1	PAR-79-MP-TMW05	8270 SIM	Benzo(g,h,i)perylene
The Method Blank for method 8270 SIM reported a value greater than the reporting level for the analyte Benzo(g,h,i)perylene.				
2165196007	2	PAR-79-MP-TMW05	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165196008	1	PAR-79-MP-TMW06	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 27.3 and the control limits were 50 to 134. This result was reported at a dilution of 1.				
2165196008	2	PAR-79-MP-TMW06	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 48.7 and the control limits were 52 to 118. This result was reported at a dilution of 1.				
2165196008	3	PAR-79-MP-TMW06	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 27.3 and the control limits were 46 to 133. This result was reported at a dilution of 1.				
2165196008	4	PAR-79-MP-TMW06	8270 SIM	Fluoranthene-d10
The surrogate Fluoranthene-d10 for method 8270 SIM was outside of control limits. The % Recovery was reported as 30.4 and the control limits were 45 to 130. This result was reported at a dilution of 1.				
2165196008	5	PAR-79-MP-TMW06	8270 SIM	Benzo(g,h,i)perylene
The Method Blank for method 8270 SIM reported a value greater than the reporting level for the analyte Benzo(g,h,i)perylene.				
2165196008	6	PAR-79-MP-TMW06	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165196009	1	PAR-79-MP-TMW07	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 51.5 and the control limits were 52 to 118. This result was reported at a dilution of 1.				
2165196009	2	PAR-79-MP-TMW07	8270 SIM	Benzo(g,h,i)perylene
The Method Blank for method 8270 SIM reported a value greater than the reporting level for the analyte Benzo(g,h,i)perylene.				
2165196009	3	PAR-79-MP-TMW07	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2165196 PQF018|Ft. Monmouth GW Samplin

2165196010	1	PAR-79-MP-TMW08	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 30.6 and the control limits were 50 to 134. This result was reported at a dilution of 1.				
2165196010	2	PAR-79-MP-TMW08	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 48.2 and the control limits were 52 to 118. This result was reported at a dilution of 1.				
2165196010	3	PAR-79-MP-TMW08	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 30.6 and the control limits were 46 to 133. This result was reported at a dilution of 1.				
2165196010	4	PAR-79-MP-TMW08	8270 SIM	Fluoranthene-d10
The surrogate Fluoranthene-d10 for method 8270 SIM was outside of control limits. The % Recovery was reported as 40.7 and the control limits were 45 to 130. This result was reported at a dilution of 1.				
2165196010	5	PAR-79-MP-TMW08	8270 SIM	Benzo(g,h,i)perylene
The Method Blank for method 8270 SIM reported a value greater than the reporting level for the analyte Benzo(g,h,i)perylene.				
2165196010	6	PAR-79-MP-TMW08	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165196011	1	PAR-79-MP-TMW09	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 34.7 and the control limits were 50 to 134. This result was reported at a dilution of 1.				
2165196011	2	PAR-79-MP-TMW09	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 34.7 and the control limits were 46 to 133. This result was reported at a dilution of 1.				
2165196011	3	PAR-79-MP-TMW09	8270 SIM	Fluoranthene-d10
The surrogate Fluoranthene-d10 for method 8270 SIM was outside of control limits. The % Recovery was reported as 41.5 and the control limits were 45 to 130. This result was reported at a dilution of 1.				
2165196011	4	PAR-79-MP-TMW09	8270 SIM	Benzo(g,h,i)perylene
The Method Blank for method 8270 SIM reported a value greater than the reporting level for the analyte Benzo(g,h,i)perylene.				
2165196011	5	PAR-79-MP-TMW09	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165196012	1	PAR-79-EB-08042016	8270 SIM	Benzo(g,h,i)perylene
The Method Blank for method 8270 SIM reported a value greater than the reporting level for the analyte Benzo(g,h,i)perylene.				
2165196012	2	PAR-79-EB-08042016	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				
2165196013	1	PAR-79-490-TMW03	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 26.5 and the control limits were 50 to 134. This result was reported at a dilution of 1.				
2165196013	2	PAR-79-490-TMW03	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 45.5 and the control limits were 52 to 118. This result was reported at a dilution of 1.				
2165196013	3	PAR-79-490-TMW03	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 26.5 and the control limits were 46 to 133. This result was reported at a dilution of 1.				
2165196013	4	PAR-79-490-TMW03	SW846 8260C	Hexachlorobutadiene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Hexachlorobutadiene.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



Environmental

1565 Jefferson Road
Building 300, Suite 360
Rochester, NY 14623
(585)288-5380

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 879
ALS Quote #



Client Name: Parsons Federal			Container Type	AN	AN	CG	AN	AN	CG				Receipt Information (completed by Receiving Lab)				
Address: 100 High St. 4th Floor Boston, MA 02110			Container Size	4 oz	4 oz	40mL	4 oz	1L	40ml				Cooler Temp: <u>1</u> Therm ID: <u>352</u>				
Contact: Cory Mahony			Preservative	4c	4c	4c & MEHQ	4c	HCL	HCL				No. of Coolers: <u>1</u> Y <u>1</u> N Initial <u>SES</u>				
Phone#: 617-449-1440			ANALYSES/METHOD REQUESTED										Custody Seals Present? ☒				
Project Name/#: FTMM			*G or C	Matrix	EPH (fractionated)	SVOCs - Naphthalene & 2-methylnaphthalene (8270D)	VOC (8260C)+TICs including 1,2-dichloroethane & 1,2-dibromoethane	Lead (8020)	SVOC (8270D) + TICs (groundwater)	VOC (8260C)+TICs (groundwater)	AUTHORIZED TO RUN	EXTRACT AND HOLD	(If present) Seals Intact? ☒				
Bill To: Parsons Federal													Received on Ice? ☒				
TAT ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.													COC/Labels Complete/Accurate? ☒				
Date Required: _____ Approved? _____													Cont. in Good Cond? ☒				
Email? ☒ -Y carla.rodman@parsons.com													Correct Containers? ☒				
Fax? ☐ -Y No.:													Correct Sample Volumes? ☒				
													Correct Preservation? ☒				
													Headspace/Volatiles? ☒				
Sample Description/Location (as it will appear on the lab report)			Sample Date	Time	Enter Number of Containers Per Sample or Field Results Below.										Courier/Tracking #:		
															Sample/COC Comments		
PAR-79-MP-TMW01			8/3/16	1430	G	GW				2	3			X			
2 PAR-79-MP-TMW02			8/3/16	1445	G	GW				2	3			X			
3 PAR-79-EB-08032016			8/3/16	1540	G	EB				2	3			X			
4 PAR-79-EB-08032016			8/3/16	---	G	TB					3			X			
5 PAR-79-MP-TMW03			8/4/16	1010	G	GW				2	3			X			
6 PAR-79-MP-TMW04			8/4/16	1035	G	GW				2	3			X			
7 PAR-79-MP-TMW05			8/4/16	1055	G	GW				2	3			X			
8 PAR-79-MP-TMW06			8/4/16	1120	G	GW				2	3			X			
9 PAR-79-MP-TMW07			8/4/16	1150	G	GW				2	3			X			
10 PAR-79-MP-TMW08			8/4/16	1145	G	GW				2	3			X			
Project Comments: 748810 MDL Must Meet NJDEP Soil Cleanup Criteria and/or Groundwater Quality Standards			LOGGED BY (signature): <u>Ch. W.</u> Date: <u>8/4/16</u> Time: <u>1500</u>			REVIEWED BY (signature): <u>F. J. J.</u> Date: <u>8-5-16</u> Time: <u>0800</u>			Data Deliverables ☐ Standard ☒ CLP-like ☐ USACE			Special Processing USACE ☐ Navy ☐ State Samples Collected in ☐ NY ☒ NJ ☐ PA ☐ NC					
Relinquished By / Company Name			Date	Time	Received By / Company Name			Date	Time	Reportable to PADEP? Yes ☐ No ☒			Sample Disposal Lab ☐ Special ☐				
1 <u>Frank J. J. PARSONS</u>			8-5-16	1500	2 <u>Ch. W.</u> A.S.			8/5/16	1500	PWSID #			EDDS: Format Type- ERPIMS				
3 <u>Ch. W.</u>			8-5-16		4 <u>Ch. W.</u>			8-5	1815								
5 <u>D. K. J.</u>			8-5	2025	6 <u>Ch. W.</u>			8/5	2025								
7					8												
9					10												

*G=Grab; C=Composite

**Matrix - AL=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 1565 Jefferson Road, Building 300, Suite 360 Rochester, NY 14623 USA

WMA 08106/16 0808



Environmental

1565 Jefferson Road
Building 300, Suite 360
Rochester, NY 14623
(585)288-5380

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: P79 08042016 002 2 of 2
ALS Quote #:

Client Name: Parsons Federal			Container Type	AN	AN	CG	AN	AN	CG				Receipt Information (completed by Receiving Lab)		
Address: 100 High St. 4th Floor Boston, MA 02110			Container Size	4 oz	4 oz	40mL	4 oz	1L	40ml				Cooler Temp: <u>1</u> Therm ID: <u>352</u>		
Contact: Cory Mahony Phone#: 617-449-1440 Project Name#: FTMM Bill To: Parsons Federal			Preservative	4c	4c	4c & MECH	4c	HCL	HCL				No. of Coolers: <u>1</u> Y <u>1</u> N Initial <u>SES</u>		
TAT ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.			ANALYSES/METHOD REQUESTED										Custody Seals Present? ☒ (If present) Seals Intact? ☒ Received on Ice? ☒ COC/Labels Complete/Accurate? ☒ Cont. in Good Cond.? ☒ Correct Containers? ☒ Correct Sample Volumes? ☒ Correct Preservation? ☒ Headspace/Volatiles? ☒		
Date Required: _____ Approved? _____ Email? ☒ -Y <u>carla.rodman@parsons.com</u> Fax? ☐ -Y No: _____			AUTHORIZED TO RUN EXTRACT AND HOLD										Courier/Tracking #: _____		
Sample Description/Location (as it will appear on the lab report)			Sample Date	Time	*G or C	**Matrix	Enter Number of Containers Per Sample or Field Results Below.				Sample/COC Comments				
PAR-79-MF-TMW09			8/4/16	1315	G	GW				2	3		X		
2 PAR-79-EB-08042016			8/4/16	1500	G	GW				2	3		X		
3 PAR-79-490-TMW03			8/4/16	1405	G	GW				2	3		X		
4															
5															
6															
7															
8															
9															
10															
Project Comments: 748810 MDL Must Meet NJDEP Soil Cleanup Criteria and/or Groundwater Quality Standards			LOGGED BY (signature): <u>C. Mahony</u> Date: <u>8/4/16</u> Time: <u>1500</u>			REVIEWED BY (signature): <u>T. Geronzi</u> Date: <u>8-5-16</u> Time: <u>0800</u>			Data Deliverables ☐ Standard ☒ CLP-like ☐ USACE			Special Processing USACE ☐ Navy ☐ State Samples Collected In ☐ NY ☒ NJ ☐ PA ☐ NC			
Relinquished By / Company Name			Date	Time	Received By / Company Name			Date	Time	Reportable to PADEP? Yes ☐ PWSID # _____			Sample Disposal Lab ☐ Special ☐		
1 <u>Frank Mahony PARSONS</u>			8-5-16	1500	2 <u>John Mahony - ALS</u>			8/5/16	1500						
3 <u>D. K. Mahony</u>			8-5-16		4 <u>John Mahony</u>			8-5	1515						
5 <u>D. K. Mahony</u>			8-5	2025	6 <u>John Mahony</u>			8/5	2025						
7					8										
9					10										

*G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 1565 Jefferson Road, Building 300, Suite 360 Rochester, NY 14623 USA

MLA 0806/16 0208

June 6, 2016

Ms. Carla Rodman
Parsons
301 Plainfield Rd
Suite 350
Syracuse, NY 13212

Certificate of Analysis

Revised Report - 6/6/2016 7:12:03 PM - See workorder comment section for explanation

Project Name:	Parsons	Workorder:	2138496
Purchase Order:	58R1603938	Workorder ID:	AER167 R1603938

Dear Ms. Rodman:

Enclosed are the analytical results for samples received by the laboratory on Friday, April 22, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mr. Brad W Kintzer (Project Coordinator) at (717) 944-5541.

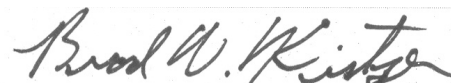
Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Maryanne Kosciwicz , Mr. Cory Mahony , Ms. Vanessa Badman

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2138496 AER167|R1603938

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2138496001	PAR-79-A75-SB-02-9.5-10	Solid	4/13/2016 14:40	4/22/2016 08:48	Collected by Client
2138496002	PAR-79-A75-SB-04-0.5-1	Solid	4/13/2016 15:10	4/22/2016 08:48	Collected by Client
2138496003	PAR-79-A75-SB-04-3-3.5	Solid	4/13/2016 15:15	4/22/2016 08:48	Collected by Client
2138496004	PAR-79-A75-SB-04-9.5-10	Solid	4/13/2016 15:20	4/22/2016 08:48	Collected by Client

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 2138496 AER167|R1603938

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

PROJECT SUMMARY

Workorder: 2138496 AER167|R1603938

Workorder Comments

This report was modified to add the LOQ, LOD, and DL to Total EPH Aromatic, Total EPH Aliphatic, and Total EPH (Aromatic+Aliphatic). JSL 05/19/16

Sample Comments

Lab ID: 2138496001 **Sample ID:** PAR-79-A75-SB-02-9.5-10 **Sample Type:** SAMPLE

The QC sample type LCS in the NJEPH aliphatic analysis recovered outside of method control limits for n-Nonane. The recovery was 33.7% and the limits are 40%-140%.
The QC sample type LCS in the NJEPH aromatic analysis recovered outside of method control limits for the following compounds: Naphthalene (recovery 155.2% and the limits are 40%-140%), Acenaphthene (recovery 149% and the limits are 40%-140%), Pyrene (recovery 142.5% and the limits are 40%-140%), Indeno (1,2,3-cd)pyrene (recovery 151.1% and the limits are 40%-140%), and Dibenz (a,h) anthracene (recovery 179.6% and the limits are 40%-140%).
The QC sample type LCSD in the NJEPH aromatic analysis recovered outside of method control limits for the following compounds: Naphthalene (recovery 148.5% and the limits are 40%-140%), Acenaphthene (recovery 154% and the limits are 40%-140%), Fluoranthene (recovery 143.9% and the limits are 40%-140%), Pyrene (recovery 150.8% and the limits are 40%-140%), Chrysene (recovery 143.2% and the limits are 40%-140%), Indeno (1,2,3-cd)pyrene (recovery 154.3% and the limits are 40%-140%), and Dibenz (a,h) anthracene (recovery 185.6% and the limits are 40%-140%).

Lab ID: 2138496002 **Sample ID:** PAR-79-A75-SB-04-0.5-1 **Sample Type:** SAMPLE

The QC sample type LCS in the NJEPH aliphatic analysis recovered outside of method control limits for n-Nonane. The recovery was 33.7% and the limits are 40%-140%.
The QC sample type MS in the NJEPH aliphatic analysis recovered outside of method control limits for n-Nonane. The recovery was 38.2% and the limits are 40%-140%.
The QC sample type MSD in the NJEPH aliphatic analysis recovered outside of method control limits for n-Nonane. The recovery was 39.7% and the limits are 40%-140%.
The QC sample type LCS in the NJEPH aromatic analysis recovered outside of method control limits for the following compounds: Naphthalene (recovery 155.2% and the limits are 40%-140%), Acenaphthene (recovery 149% and the limits are 40%-140%), Pyrene (recovery 142.5% and the limits are 40%-140%), Indeno (1,2,3-cd)pyrene (recovery 151.1% and the limits are 40%-140%), and Dibenz (a,h) anthracene (recovery 179.6% and the limits are 40%-140%).
The QC sample type LCSD in the NJEPH aromatic analysis recovered outside of method control limits for the following compounds: Naphthalene (recovery 148.5% and the limits are 40%-140%), Acenaphthene (recovery 154% and the limits are 40%-140%), Fluoranthene (recovery 143.9% and the limits are 40%-140%), Pyrene (recovery 150.8% and the limits are 40%-140%), Chrysene (recovery 143.2% and the limits are 40%-140%), Indeno (1,2,3-cd)pyrene (recovery 154.3% and the limits are 40%-140%), and Dibenz (a,h) anthracene (recovery 185.6% and the limits are 40%-140%).
The QC sample type MS in the NJEPH aromatic analysis exhibited an overall high bias and many compounds recovered outside of method control limits.
The QC sample type MSD in the NJEPH aromatic analysis exhibited an overall high bias and many compounds recovered outside of method control limits.

Lab ID: 2138496003 **Sample ID:** PAR-79-A75-SB-04-3.5 **Sample Type:** SAMPLE

The QC sample type LCS in the NJEPH aliphatic analysis recovered outside of method control limits for n-Nonane. The recovery was 33.7% and the limits are 40%-140%.
The QC sample type LCS in the NJEPH aromatic analysis recovered outside of method control limits for the following compounds: Naphthalene (recovery 155.2% and the limits are 40%-140%), Acenaphthene (recovery 149% and the limits are 40%-140%), Pyrene (recovery 142.5% and the limits are 40%-140%), Indeno (1,2,3-cd)pyrene (recovery 151.1% and the limits are 40%-140%), and Dibenz (a,h) anthracene (recovery 179.6% and the limits are 40%-140%).

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

PROJECT SUMMARY

Workorder: 2138496 AER167|R1603938

Lab ID: 2138496003**Sample ID:** PAR-79-A75-SB-04-3-3.5**Sample Type:** SAMPLE

The QC sample type LCSD in the NJEPH aromatic analysis recovered outside of method control limits for the following compounds: Naphthalene (recovery 148.5% and the limits are 40%-140%), Acenaphthene (recovery 154% and the limits are 40%-140%), Fluoranthene (recovery 143.9% and the limits are 40%-140%), Pyrene (recovery 150.8% and the limits are 40%-140%), Chrysene (recovery 143.2% and the limits are 40%-140%), Indeno (1,2,3-cd)pyrene (recovery 154.3% and the limits are 40%-140%), and Dibenzo (a,h) anthracene (recovery 185.6% and the limits are 40%-140%).

Lab ID: 2138496004**Sample ID:** PAR-79-A75-SB-04-9.5-10**Sample Type:** SAMPLE

The QC sample type LCS in the NJEPH aliphatic analysis recovered outside of method control limits for n-Nonane. The recovery was 33.7% and the limits are 40%-140%.

The QC sample type LCS in the NJEPH aromatic analysis recovered outside of method control limits for the following compounds: Naphthalene (recovery 155.2% and the limits are 40%-140%), Acenaphthene (recovery 149% and the limits are 40%-140%), Pyrene (recovery 142.5% and the limits are 40%-140%), Indeno (1,2,3-cd)pyrene (recovery 151.1% and the limits are 40%-140%), and Dibenzo (a,h) anthracene (recovery 179.6% and the limits are 40%-140%).

The QC sample type LCSD in the NJEPH aromatic analysis recovered outside of method control limits for the following compounds: Naphthalene (recovery 148.5% and the limits are 40%-140%), Acenaphthene (recovery 154% and the limits are 40%-140%), Fluoranthene (recovery 143.9% and the limits are 40%-140%), Pyrene (recovery 150.8% and the limits are 40%-140%), Chrysene (recovery 143.2% and the limits are 40%-140%), Indeno (1,2,3-cd)pyrene (recovery 154.3% and the limits are 40%-140%), and Dibenzo (a,h) anthracene (recovery 185.6% and the limits are 40%-140%).

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

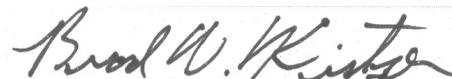
ANALYTICAL RESULTS

Workorder: 2138496 AER167|R1603938

Lab ID: **2138496001**
Sample ID: **PAR-79-A75-SB-02-9.5-10**

Date Collected: 4/13/2016 14:40 Matrix: Solid
Date Received: 4/22/2016 08:48

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	0.75J	J	mg/kg	1.1	1.1	0.50	NJEPH	4/25/16 LEH	5/5/16 19:47	KJH	B
C12 TO C16	0.33J	J	mg/kg	1.1	1.1	0.20	NJEPH	4/25/16 LEH	5/5/16 19:47	KJH	B
C16 TO C21	0.21J	J	mg/kg	1.1	1.1	0.19	NJEPH	4/25/16 LEH	5/5/16 19:47	KJH	B
C21 TO C36	1.4		mg/kg	1.1	1.1	0.26	NJEPH	4/25/16 LEH	5/5/16 19:47	KJH	B
Total EPH Aromatic	2.6J	J	mg/kg	4.4	4.4	1.1	NJEPH	4/25/16 LEH	5/5/16 19:47	KJH	B
Total EPH (Aliphatic+Aromatic)	5.2J	J	mg/kg	8.8	8.8	2.8	NJEPH	4/25/16 LEH	5/5/16 19:47	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	109		%	40 - 140			NJEPH	4/25/16 LEH	5/5/16 19:47	KJH	B
2-Fluorobiphenyl (S)	108		%	40 - 140			NJEPH	4/25/16 LEH	5/5/16 19:47	KJH	B
o-Terphenyl (S)	74		%	40 - 140			NJEPH	4/25/16 LEH	5/5/16 19:47	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.39J	J	mg/kg	1.1	1.1	0.13	NJEPH	4/25/16 LEH	5/1/16 07:07	KJH	B
C12 TO C16	1.1U	U	mg/kg	1.1	1.1	0.47	NJEPH	4/25/16 LEH	5/1/16 07:07	KJH	B
C16 TO C21	1.1U	U	mg/kg	1.1	1.1	0.46	NJEPH	4/25/16 LEH	5/1/16 07:07	KJH	B
C21 TO C40	1.8		mg/kg	1.1	1.1	0.54	NJEPH	4/25/16 LEH	5/1/16 07:07	KJH	B
Total EPH Aliphatic	2.6J	J	mg/kg	4.4	4.4	1.6	NJEPH	4/25/16 LEH	5/1/16 07:07	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	34.4	1	%	40 - 140			NJEPH	4/25/16 LEH	5/1/16 07:07	KJH	B
WET CHEMISTRY											
Moisture	13.2		%	0.1	0.1	0.01	S2540G-11		4/28/16 12:50	KAM	A
Total Solids	86.8	2	%	0.1	0.1	0.01	S2540G-11		4/28/16 12:50	KAM	A


Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

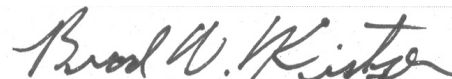
ANALYTICAL RESULTS

Workorder: 2138496 AER167|R1603938

Lab ID: **2138496002**
Sample ID: **PAR-79-A75-SB-04-0.5-1**

Date Collected: 4/13/2016 15:10 Matrix: Solid
Date Received: 4/22/2016 08:48

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.1		mg/kg	1.1	1.1	0.49	NJEPH	4/25/16 LEH	5/5/16 20:46	KJH	B
C12 TO C16	1.3		mg/kg	1.1	1.1	0.20	NJEPH	4/25/16 LEH	5/5/16 20:46	KJH	B
C16 TO C21	2.8		mg/kg	1.1	1.1	0.19	NJEPH	4/25/16 LEH	5/5/16 20:46	KJH	B
C21 TO C36	6.6		mg/kg	1.1	1.1	0.26	NJEPH	4/25/16 LEH	5/5/16 20:46	KJH	B
Total EPH Aromatic	11.9		mg/kg	4.4	4.4	1.1	NJEPH	4/25/16 LEH	5/5/16 20:46	KJH	B
Total EPH (Aliphatic+Aromatic)	18.2		mg/kg	8.7	8.7	2.7	NJEPH	4/25/16 LEH	5/5/16 20:46	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	105		%	40 - 140			NJEPH	4/25/16 LEH	5/5/16 20:46	KJH	B
2-Fluorobiphenyl (S)	103		%	40 - 140			NJEPH	4/25/16 LEH	5/5/16 20:46	KJH	B
o-Terphenyl (S)	80		%	40 - 140			NJEPH	4/25/16 LEH	5/5/16 20:46	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.79J	J	mg/kg	1.1	1.1	0.13	NJEPH	4/25/16 LEH	5/1/16 08:06	KJH	B
C12 TO C16	0.47J	J	mg/kg	1.1	1.1	0.47	NJEPH	4/25/16 LEH	5/1/16 08:06	KJH	B
C16 TO C21	0.74J	J	mg/kg	1.1	1.1	0.46	NJEPH	4/25/16 LEH	5/1/16 08:06	KJH	B
C21 TO C40	4.3		mg/kg	1.1	1.1	0.53	NJEPH	4/25/16 LEH	5/1/16 08:06	KJH	B
Total EPH Aliphatic	6.3		mg/kg	4.4	4.4	1.6	NJEPH	4/25/16 LEH	5/1/16 08:06	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	34.4	1	%	40 - 140			NJEPH	4/25/16 LEH	5/1/16 08:06	KJH	B
WET CHEMISTRY											
Moisture	12.9		%	0.1	0.1	0.01	S2540G-11		4/27/16 17:31	SLC	A
Total Solids	87.1	2	%	0.1	0.1	0.01	S2540G-11		4/27/16 17:31	SLC	A


Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

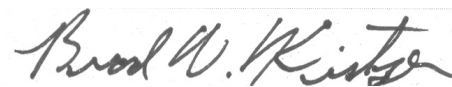
ANALYTICAL RESULTS

Workorder: 2138496 AER167|R1603938

Lab ID: **2138496003**
Sample ID: **PAR-79-A75-SB-04-3-3.5**

Date Collected: 4/13/2016 15:15 Matrix: Solid
Date Received: 4/22/2016 08:48

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.2		mg/kg	1.1	1.1	0.51	NJEPH	4/25/16 LEH	5/5/16 23:42	KJH	B
C12 TO C16	0.97J	J	mg/kg	1.1	1.1	0.21	NJEPH	4/25/16 LEH	5/5/16 23:42	KJH	B
C16 TO C21	11.1		mg/kg	1.1	1.1	0.19	NJEPH	4/25/16 LEH	5/5/16 23:42	KJH	B
C21 TO C36	19.9		mg/kg	1.1	1.1	0.27	NJEPH	4/25/16 LEH	5/5/16 23:42	KJH	B
Total EPH Aromatic	33.2		mg/kg	4.6	4.6	1.2	NJEPH	4/25/16 LEH	5/5/16 23:42	KJH	B
Total EPH (Aliphatic+Aromatic)	47.9		mg/kg	9.1	9.1	2.9	NJEPH	4/25/16 LEH	5/5/16 23:42	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	113		%	40 - 140			NJEPH	4/25/16 LEH	5/5/16 23:42	KJH	B
2-Fluorobiphenyl (S)	109		%	40 - 140			NJEPH	4/25/16 LEH	5/5/16 23:42	KJH	B
o-Terphenyl (S)	66.7		%	40 - 140			NJEPH	4/25/16 LEH	5/5/16 23:42	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.66J	J	mg/kg	1.1	1.1	0.14	NJEPH	4/25/16 LEH	5/1/16 11:01	KJH	B
C12 TO C16	0.90J	J	mg/kg	1.1	1.1	0.49	NJEPH	4/25/16 LEH	5/1/16 11:01	KJH	B
C16 TO C21	1.1U	U	mg/kg	1.1	1.1	0.48	NJEPH	4/25/16 LEH	5/1/16 11:01	KJH	B
C21 TO C40	12.7		mg/kg	1.1	1.1	0.56	NJEPH	4/25/16 LEH	5/1/16 11:01	KJH	B
Total EPH Aliphatic	14.7		mg/kg	4.6	4.6	1.7	NJEPH	4/25/16 LEH	5/1/16 11:01	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	32.1	1	%	40 - 140			NJEPH	4/25/16 LEH	5/1/16 11:01	KJH	B
WET CHEMISTRY											
Moisture	16.4		%	0.1	0.1	0.01	S2540G-11		4/27/16 17:31	SLC	B
Total Solids	83.6	2	%	0.1	0.1	0.01	S2540G-11		4/27/16 17:31	SLC	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

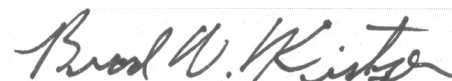
ANALYTICAL RESULTS

Workorder: 2138496 AER167|R1603938

Lab ID: **2138496004**
Sample ID: **PAR-79-A75-SB-04-9.5-10**

Date Collected: 4/13/2016 15:20 Matrix: Solid
Date Received: 4/22/2016 08:48

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.6		mg/kg	1.2	1.2	0.56	NJEPH	4/25/16 LEH	5/6/16 01:40	KJH	B
C12 TO C16	1.6		mg/kg	1.2	1.2	0.22	NJEPH	4/25/16 LEH	5/6/16 01:40	KJH	B
C16 TO C21	5.5		mg/kg	1.2	1.2	0.21	NJEPH	4/25/16 LEH	5/6/16 01:40	KJH	B
C21 TO C36	15.8		mg/kg	1.2	1.2	0.30	NJEPH	4/25/16 LEH	5/6/16 01:40	KJH	B
Total EPH Aromatic	24.4		mg/kg	5.0	5.0	1.3	NJEPH	4/25/16 LEH	5/6/16 01:40	KJH	B
Total EPH (Aliphatic+Aromatic)	45.5		mg/kg	9.9	9.9	3.1	NJEPH	4/25/16 LEH	5/6/16 01:40	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	111		%	40 - 140			NJEPH	4/25/16 LEH	5/6/16 01:40	KJH	B
2-Fluorobiphenyl (S)	110		%	40 - 140			NJEPH	4/25/16 LEH	5/6/16 01:40	KJH	B
o-Terphenyl (S)	63.7		%	40 - 140			NJEPH	4/25/16 LEH	5/6/16 01:40	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.48J	J	mg/kg	1.2	1.2	0.15	NJEPH	4/25/16 LEH	5/1/16 12:00	KJH	B
C12 TO C16	1.2U	U	mg/kg	1.2	1.2	0.53	NJEPH	4/25/16 LEH	5/1/16 12:00	KJH	B
C16 TO C21	1.4		mg/kg	1.2	1.2	0.52	NJEPH	4/25/16 LEH	5/1/16 12:00	KJH	B
C21 TO C40	19.0		mg/kg	1.2	1.2	0.61	NJEPH	4/25/16 LEH	5/1/16 12:00	KJH	B
Total EPH Aliphatic	21.0		mg/kg	5.0	5.0	1.8	NJEPH	4/25/16 LEH	5/1/16 12:00	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	29.8	1	%	40 - 140			NJEPH	4/25/16 LEH	5/1/16 12:00	KJH	B
WET CHEMISTRY											
Moisture	22.1		%	0.1	0.1	0.01	S2540G-11		4/27/16 17:31	SLC	B
Total Solids	77.9	2	%	0.1	0.1	0.01	S2540G-11		4/27/16 17:31	SLC	B


Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2138496001	1	PAR-79-A75-SB-02-9.5-10	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 34.4 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2138496001	2	PAR-79-A75-SB-02-9.5-10	S2540G-11	Total Solids
Analyte was analyzed past the 14 day holding time.				
2138496002	1	PAR-79-A75-SB-04-0.5-1	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 34.4 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2138496002	2	PAR-79-A75-SB-04-0.5-1	S2540G-11	Total Solids
Analyte was analyzed past the 14 day holding time.				
2138496003	1	PAR-79-A75-SB-04-3-3.5	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 32.1 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2138496003	2	PAR-79-A75-SB-04-3-3.5	S2540G-11	Total Solids
Analyte was analyzed past the 14 day holding time.				
2138496004	1	PAR-79-A75-SB-04-9.5-10	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 29.8 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2138496004	2	PAR-79-A75-SB-04-9.5-10	S2540G-11	Total Solids
Analyte was analyzed past the 14 day holding time.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

QUALITY CONTROL DATA

Workorder: 2138496 AER167|R1603938

QC Batch: EXTR/43131 **Analysis Method:** NJEPH
QC Batch Method: SW846 3546
Associated Lab Samples: 2138496001, 2138496002, 2138496003, 2138496004

METHOD BLANK: 2330375

Parameter	Blank Result	Units	Reporting Limit
C9 TO C12	0.14J	mg/kg	1.0
C12 TO C16	1.0U	mg/kg	1.0
C16 TO C21	1.0U	mg/kg	1.0
C21 TO C40	0.94J	mg/kg	1.0
Total EPH Aliphatic	4.0U	mg/kg	4.0
1-Chlorooctadecane (S)	32.3	%	40 - 140

LABORATORY CONTROL SAMPLE: 2330376 DUPLICATE: 2330377

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
1-Chlorooctadecane (S)	30.2*	%			30.2		40 - 140		

MATRIX SPIKE: 2330378 DUPLICATE: 2330379 ORIGINAL: 2138496002

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
1-Chlorooctadecane (S)	29.7	%				29.7*	31.6*	40 - 140		

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA

Workorder: 2138496 AER167|R1603938

QC Batch: EXTR/43132 **Analysis Method:** NJEPH
QC Batch Method: SW846 3546
Associated Lab Samples: 2138496001, 2138496002, 2138496003, 2138496004

METHOD BLANK: 2330380

Parameter	Blank Result	Units	Reporting Limit
C10 TO C12	0.71J	mg/kg	1.0
C12 TO C16	0.20J	mg/kg	1.0
C16 TO C21	1.0U	mg/kg	1.0
C21 TO C36	1.0U	mg/kg	1.0
Total EPH Aromatic	1.2J	mg/kg	4.0
Total EPH (Aliphatic+Aromatic)	8.0U	mg/kg	8.0
2-Bromonaphthalene (S)	104	%	40 - 140
2-Fluorobiphenyl (S)	102	%	40 - 140
o-Terphenyl (S)	73.2	%	40 - 140

LABORATORY CONTROL SAMPLE: 2330381 DUPLICATE: 2330382

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
2-Bromonaphthalene (S)	97.6	%			97.6		40 - 140		
2-Fluorobiphenyl (S)	96.5	%			96.5		40 - 140		
o-Terphenyl (S)	71.9	%			71.9		40 - 140		

MATRIX SPIKE: 2330383 DUPLICATE: 2330384 ORIGINAL: 2138496002

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
2-Bromonaphthalene (S)	104	%				104	103	40 - 140		
2-Fluorobiphenyl (S)	102	%				102	101	40 - 140		
o-Terphenyl (S)	82	%				82	76.3	40 - 140		

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA

Workorder: 2138496 AER167|R1603938

QC Batch: WETC/169307 **Analysis Method:** S2540G-11
QC Batch Method: S2540G-11
Associated Lab Samples: 2138496002, 2138496003, 2138496004

SAMPLE DUPLICATE: 2332030 ORIGINAL: 2137175001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	10.4166	%	11.0504	5.9	10
Total Solids	89.5833	%	88.9495	.71	5

SAMPLE DUPLICATE: 2332031 ORIGINAL: 2138195007

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	3.47	%	.5665	144*	10
Total Solids	96.5299	%	99.4334	2.96	5

SAMPLE DUPLICATE: 2332032 ORIGINAL: 2138262016

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	10.0391	%	12.5125	21.9*	10
Total Solids	89.9608	%	87.4874	2.79	5

SAMPLE DUPLICATE: 2332033 ORIGINAL: 2138346002

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	75.7097	%	76.1606	.59	10
Total Solids	24.2902	%	23.8393	1.87	5

SAMPLE DUPLICATE: 2332034 ORIGINAL: 2138496003

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	16.4218	%	15.6103	5.07	10
Total Solids	83.5781	%	84.3896	.97	5

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

**QUALITY CONTROL DATA**

Workorder: 2138496 AER167|R1603938

SAMPLE DUPLICATE: 2332035 ORIGINAL: 2138521004

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	14.4891	%	13.8225	4.71	10
Total Solids	85.5108	%	86.1774	.78	5

SAMPLE DUPLICATE: 2332036 ORIGINAL: 2138535001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	21.4437	%	21.4417	.009	10
Total Solids	78.5562	%	78.5582	.003	5

SAMPLE DUPLICATE: 2332037 ORIGINAL: 2138536002

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	12.129	%	9.9403	19.8*	10
Total Solids	87.8709	%	90.0596	2.46	5

SAMPLE DUPLICATE: 2332038 ORIGINAL: 2138565002

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	87.1704	%	87.3544	.21	10
Total Solids	12.8295	%	12.6455	1.44	5

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA

Workorder: 2138496 AER167|R1603938

QC Batch: WETC/169374 **Analysis Method:** S2540G-11
QC Batch Method: S2540G-11
Associated Lab Samples: 2138496001

SAMPLE DUPLICATE: 2332877 ORIGINAL: 2138571001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	5.4179	%	5.1782	4.52	10
Total Solids	94.582	%	94.8217	.25	5

SAMPLE DUPLICATE: 2332878 ORIGINAL: 2138575003

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	5.8549	%	7.6287	26.3*	10
Total Solids	94.145	%	92.3712	1.9	5

SAMPLE DUPLICATE: 2332879 ORIGINAL: 2138580001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	15.3132	%	15.9284	3.94	10
Total Solids	84.6867	%	84.0715	.73	5

SAMPLE DUPLICATE: 2332880 ORIGINAL: 2138635008

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	13.9512	%	14.5701	4.34	10
Total Solids	86.0487	%	85.4298	.72	5

SAMPLE DUPLICATE: 2332881 ORIGINAL: 2138635019

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	22.0946	%	16.6883	27.9*	10
Total Solids	77.9053	%	83.3116	6.71*	5

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA

Workorder: 2138496 AER167|R1603938

SAMPLE DUPLICATE: 2332882 ORIGINAL: 2138652004

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	18.4541	%	19.2332	4.13	10
Total Solids	81.5458	%	80.7667	.96	5

SAMPLE DUPLICATE: 2332883 ORIGINAL: 2138653006

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	18.0174	%	18.8779	4.66	10
Total Solids	81.9825	%	81.122	1.06	5

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2138496 AER167|R1603938

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2138496001	PAR-79-A75-SB-02-9.5-10	SW846 3546	EXTR/43131	NJEPH	SVGC/41716
2138496002	PAR-79-A75-SB-04-0.5-1	SW846 3546	EXTR/43131	NJEPH	SVGC/41716
2138496003	PAR-79-A75-SB-04-3-3.5	SW846 3546	EXTR/43131	NJEPH	SVGC/41716
2138496004	PAR-79-A75-SB-04-9.5-10	SW846 3546	EXTR/43131	NJEPH	SVGC/41716
2138496001	PAR-79-A75-SB-02-9.5-10	SW846 3546	EXTR/43132	NJEPH	SVGC/41717
2138496002	PAR-79-A75-SB-04-0.5-1	SW846 3546	EXTR/43132	NJEPH	SVGC/41717
2138496003	PAR-79-A75-SB-04-3-3.5	SW846 3546	EXTR/43132	NJEPH	SVGC/41717
2138496004	PAR-79-A75-SB-04-9.5-10	SW846 3546	EXTR/43132	NJEPH	SVGC/41717
2138496002	PAR-79-A75-SB-04-0.5-1			S2540G-11	WETC/169307
2138496003	PAR-79-A75-SB-04-3-3.5			S2540G-11	WETC/169307
2138496004	PAR-79-A75-SB-04-9.5-10			S2540G-11	WETC/169307
2138496001	PAR-79-A75-SB-02-9.5-10			S2540G-11	WETC/169374

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS



Project Number: R1603938
Project Manager: Vanessa Badman
QAP: LAB QAP

Misc Out 1
None

Lab Code	Sample ID	# of Cont.	Matrix	Sample		Lab ID	
				Date	Time		
~~R1603938-001~~	PAR-79-A75-SB-02-9.5-10	1	Soil	4/13/16	1440	Middletown ALS	X
~~R1603938-002~~	PAR-75-A75-SB-04-0.5-1	1	Soil	4/13/16	1510	Middletown ALS	X
~~R1603938-003~~	PAR-75-A75-SB-04-3-3.5	1	Soil	4/13/16	1515	Middletown ALS	X
~~R1603938-004~~	PAR-75-A75-SB-04-9.5-10	1	Soil	4/13/16	1520	Middletown ALS	X

Test Comments
Misc Out 1 - None

R1603938-001,2,3,4

Folder Comments:
DoD reporting ERPTOOLS LOD

NJEPH

Y N Initials Cooler Temp: °C

Custody Seals Present? ☒ Y ☐ N Initials AV Cooler # 1

(if present) Seals Intact? ☒ Y ☐ N Cooler # 1

Received on Ice? ☒ Y ☐ N Therm ID: TFB352

COC/Lbls Complete ☒ Y ☐ N Ship Carrier: FedEx

Cont in Good Cond? ☒ Y ☐ N UPS

Correct Containers? ☒ Y ☐ N DHL

Correct Samp Vol? ☒ Y ☐ N

Correct Preservation? ☒ Y ☐ N

Headspace/Volatiles? ☒ Y ☐ N

Tracking #: 671477174079

Special Instructions/Comments

Turnaround Requirements

Report Requirements

Invoice Information

RUSH (Surcharges Apply)

I. Results Only

PLEASE CIRCLE WORK DAYS

II. Results + QC Summaries

1 2 3 4 5

III. Results + QC and Calibration Summaries

STANDARD

IV. Data Validation Report with Raw Data

Requested FAX Date: _____

PQL/MDL/J Y

Requested Report Date: 4/22/16

EDD Y

PO#

58R1603938

Bill to

H - Test is On Hold

P - Test is Authorized for Prep Only

Relinquished By: [Signature] 4/21/16

Received By: [Signature] 4/22/16

Airbill Number: 0848

Project Number: R1603938
Project Manager: Vanessa Badman
QAP: LAB QAP

R1603938

— Ship To: Middletown ALS
ALS Laboratory Group
34 Dogwood Lane
Middletown, PA 17057

PC _____ Date _____
SMO _____ Date _____

Instructions:

Ice _____
Dry Ice _____
No Ice _____

Shipping:

Overnight _____
2nd Day _____
Ground _____

Bill to Client Account _____

Comments:

ALS Group USA, Corp.
www.alsglobal.com
An ALS Limited Company

June 6, 2016

Ms. Carla Rodman
Parsons
301 Plainfield Rd
Suite 350
Syracuse, NY 13212

Certificate of Analysis

Revised Report - 6/6/2016 7:10:23 PM - See workorder comment section for explanation

Project Name:	Parsons	Workorder:	2137450
Purchase Order:	58R1603708	Workorder ID:	AER164 R1603708

Dear Ms. Rodman:

Enclosed are the analytical results for samples received by the laboratory between Tuesday, April 19, 2016 and Wednesday, April 20, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mr. Brad W Kintzer (Project Coordinator) at (717) 944-5541.

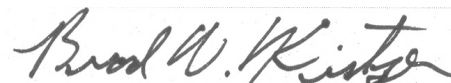
Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Maryanne Kosciwicz , Mr. Cory Mahony , Ms. Vanessa Badman

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2137450 AER164|R1603708

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2137450001	PAR-79-490-SB-01-1.5-2	Solid	4/12/2016 11:15	4/19/2016 08:52	Collected by Client
2137450002	PAR-79-490-SB-01-2-2.5	Solid	4/12/2016 11:20	4/19/2016 08:52	Collected by Client
2137450003	PAR-79-490-SB-01-9.5-10	Solid	4/12/2016 11:25	4/19/2016 08:52	Collected by Client
2137450004	PAR-79-490-SB-02-2-2.5	Solid	4/12/2016 10:25	4/19/2016 08:52	Collected by Client
2137450005	PAR-79-490-SB-02-3.5-4	Solid	4/12/2016 10:30	4/19/2016 08:52	Collected by Client
2137450006	PAR-79-490-SB-02-8-8.5	Solid	4/12/2016 10:35	4/19/2016 08:52	Collected by Client
2137450007	PAR-79-490-SB-03-2-2.5	Solid	4/12/2016 11:40	4/19/2016 08:52	Collected by Client
2137450008	PAR-79-490-SB-03-6-6.5	Solid	4/12/2016 11:45	4/19/2016 08:52	Collected by Client
2137450009	PAR-79-490-SB-03-9.5-10	Solid	4/12/2016 11:50	4/19/2016 08:52	Collected by Client
2137450010	PAR-79-490-SB-04-2-2.5	Solid	4/12/2016 09:30	4/19/2016 08:52	Collected by Client
2137450011	PAR-79-490-SB-04-3.5-4	Solid	4/12/2016 09:35	4/19/2016 08:52	Collected by Client
2137450012	PAR-79-202-SB-03-2-2.5	Solid	4/12/2016 14:30	4/19/2016 08:52	Collected by Client
2137450013	PAR-79-202-SB-03-3-3.5	Solid	4/12/2016 14:35	4/19/2016 08:52	Collected by Client
2137450014	PAR-79-202-SB-03-9.5-10	Solid	4/12/2016 14:40	4/19/2016 08:52	Collected by Client
2137450015	PAR-79-202-SB-02-3-3.5	Solid	4/12/2016 14:00	4/19/2016 08:52	Collected by Client
2137450016	PAR-79-202-SB-02-3.5-4	Solid	4/12/2016 14:05	4/19/2016 08:52	Collected by Client
2137450017	PAR-79-202-SB-02-8-8.5	Solid	4/12/2016 14:10	4/19/2016 08:52	Collected by Client
2137450018	PAR-79-202-SB-01-3-3.5	Solid	4/12/2016 14:55	4/19/2016 08:52	Collected by Client
2137450019	PAR-79-202-SB-01-9.5-10	Solid	4/12/2016 15:00	4/19/2016 08:52	Collected by Client
2137450020	PAR79-EB-04122016	Water	4/12/2016 15:00	4/19/2016 08:52	Collected by Client
2137450021	PAR-79-202-SB-01-2-2.5	Solid	4/12/2016 14:50	4/20/2016 08:59	Collected by Client
2137450022	PAR-79-490-SB-04-8-8.5	Solid	4/12/2016 09:40	4/20/2016 08:59	Collected by Client

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 2137450 AER164|R1603708

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

PROJECT SUMMARY

Workorder: 2137450 AER164|R1603708

Workorder Comments

This report was modified to add the LOQ, LOD, and DL to Total EPH Aromatic, Total EPH Aliphatic, and Total EPH (Aromatic+Aliphatic). JSL 05/19/16

Sample Comments

Lab ID: 2137450001 **Sample ID:** PAR-79-490-SB-01-1.5-2 **Sample Type:** SAMPLE

The QC sample type LCS in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 34.9% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 37% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aromatic analysis recovered outside of method control limits for the compound Dibenz(a,h)anthracene. The recovery was 145% and the limits are 40%-140%.

Lab ID: 2137450002 **Sample ID:** PAR-79-490-SB-01-2-2.5 **Sample Type:** SAMPLE

The QC sample type LCS in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 34.9% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 37% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aromatic analysis recovered outside of method control limits for the compound Dibenz(a,h)anthracene. The recovery was 145% and the limits are 40%-140%.

Lab ID: 2137450003 **Sample ID:** PAR-79-490-SB-01-9.5-10 **Sample Type:** SAMPLE

The QC sample type LCS in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 34.9% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 37% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aromatic analysis recovered outside of method control limits for the compound Dibenz(a,h)anthracene. The recovery was 145% and the limits are 40%-140%.

Lab ID: 2137450004 **Sample ID:** PAR-79-490-SB-02-2-2.5 **Sample Type:** SAMPLE

The QC sample type LCS in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 34.9% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 37% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aromatic analysis recovered outside of method control limits for the compound Dibenz(a,h)anthracene. The recovery was 145% and the limits are 40%-140%.

Lab ID: 2137450005 **Sample ID:** PAR-79-490-SB-02-3.5-4 **Sample Type:** SAMPLE

The QC sample type LCS in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 34.9% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 37% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aromatic analysis recovered outside of method control limits for the compound Dibenz(a,h)anthracene. The recovery was 145% and the limits are 40%-140%.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

PROJECT SUMMARY

Workorder: 2137450 AER164|R1603708

Lab ID: 2137450006 **Sample ID:** PAR-79-490-SB-02-8-8.5 **Sample Type:** SAMPLE

The QC sample type LCS in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 34.9% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 37% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aromatic analysis recovered outside of method control limits for the compound Dibenz(a,h)anthracene. The recovery was 145% and the limits are 40%-140%.

Lab ID: 2137450007 **Sample ID:** PAR-79-490-SB-03-2-2.5 **Sample Type:** SAMPLE

The QC sample type LCS in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 34.9% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the compound n-Nonane. The recovery was 37% and the limits are 40%-140%.
The QC sample type LCSD in the NJEPH aromatic analysis recovered outside of method control limits for the compound Dibenz(a,h)anthracene. The recovery was 145% and the limits are 40%-140%.

Lab ID: 2137450008 **Sample ID:** PAR-79-490-SB-03-6-6.5 **Sample Type:** SAMPLE

The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the following compounds: n-Nonane (recovery was 24.4% and the limits are 40%-140%) and n-Decane (recovery was 36.8% and the limits are 40%-140%).
The QC sample types LCS and LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for precision for the following compounds: n-Nonane (RPD 53.3%, limits 0%-40%), n-Decane (RPD 52.3%, limits 0%-40%), n-Dodecane (RPD 42.6%, limits 0%-40%), n-Tetradecane (RPD 42.6%, limits 0%-40%).

Lab ID: 2137450009 **Sample ID:** PAR-79-490-SB-03-9.5-10 **Sample Type:** SAMPLE

The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the following compounds: n-Nonane (recovery was 24.4% and the limits are 40%-140%) and n-Decane (recovery was 36.8% and the limits are 40%-140%).
The QC sample types LCS and LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for precision for the following compounds: n-Nonane (RPD 53.3%, limits 0%-40%), n-Decane (RPD 52.3%, limits 0%-40%), n-Dodecane (RPD 42.6%, limits 0%-40%), n-Tetradecane (RPD 42.6%, limits 0%-40%).

Lab ID: 2137450010 **Sample ID:** PAR-79-490-SB-04-2-2.5 **Sample Type:** SAMPLE

The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the following compounds: n-Nonane (recovery was 24.4% and the limits are 40%-140%) and n-Decane (recovery was 36.8% and the limits are 40%-140%).
The QC sample types LCS and LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for precision for the following compounds: n-Nonane (RPD 53.3%, limits 0%-40%), n-Decane (RPD 52.3%, limits 0%-40%), n-Dodecane (RPD 42.6%, limits 0%-40%), n-Tetradecane (RPD 42.6%, limits 0%-40%).

Lab ID: 2137450011 **Sample ID:** PAR-79-490-SB-04-3.5-4 **Sample Type:** SAMPLE

The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the following compounds: n-Nonane (recovery was 24.4% and the limits are 40%-140%) and n-Decane (recovery was 36.8% and the limits are 40%-140%).
The QC sample types LCS and LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for precision for the following compounds: n-Nonane (RPD 53.3%, limits 0%-40%), n-Decane (RPD 52.3%, limits 0%-40%), n-Dodecane (RPD 42.6%, limits 0%-40%), n-Tetradecane (RPD 42.6%, limits 0%-40%).

Lab ID: 2137450012 **Sample ID:** PAR-79-202-SB-03-2-2.5 **Sample Type:** SAMPLE

The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the following compounds: n-Nonane (recovery was 24.4% and the limits are 40%-140%) and n-Decane (recovery was 36.8% and the limits are 40%-140%).

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

PROJECT SUMMARY

Workorder: 2137450 AER164|R1603708

Lab ID: 2137450012 **Sample ID:** PAR-79-202-SB-03-2-2.5 **Sample Type:** SAMPLE

The QC sample types LCS and LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for precision for the following compounds: n-Nonane (RPD 53.3%, limits 0%-40%), n-Decane (RPD 52.3%, limits 0%-40%), n-Dodecane (RPD 42.6%, limits 0%-40%), n-Tetradecane (RPD 42.6%, limits 0%-40%).

Lab ID: 2137450013 **Sample ID:** PAR-79-202-SB-03-3-3.5 **Sample Type:** SAMPLE

The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the following compounds: n-Nonane (recovery was 24.4% and the limits are 40%-140%) and n-Decane (recovery was 36.8% and the limits are 40%-140%). The QC sample types LCS and LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for precision for the following compounds: n-Nonane (RPD 53.3%, limits 0%-40%), n-Decane (RPD 52.3%, limits 0%-40%), n-Dodecane (RPD 42.6%, limits 0%-40%), n-Tetradecane (RPD 42.6%, limits 0%-40%).

Lab ID: 2137450014 **Sample ID:** PAR-79-202-SB-03-9.5-10 **Sample Type:** SAMPLE

The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the following compounds: n-Nonane (recovery was 24.4% and the limits are 40%-140%) and n-Decane (recovery was 36.8% and the limits are 40%-140%). The QC sample types LCS and LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for precision for the following compounds: n-Nonane (RPD 53.3%, limits 0%-40%), n-Decane (RPD 52.3%, limits 0%-40%), n-Dodecane (RPD 42.6%, limits 0%-40%), n-Tetradecane (RPD 42.6%, limits 0%-40%).

Lab ID: 2137450015 **Sample ID:** PAR-79-202-SB-02-3-3.5 **Sample Type:** SAMPLE

The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the following compounds: n-Nonane (recovery was 24.4% and the limits are 40%-140%) and n-Decane (recovery was 36.8% and the limits are 40%-140%). The QC sample types LCS and LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for precision for the following compounds: n-Nonane (RPD 53.3%, limits 0%-40%), n-Decane (RPD 52.3%, limits 0%-40%), n-Dodecane (RPD 42.6%, limits 0%-40%), n-Tetradecane (RPD 42.6%, limits 0%-40%).

Lab ID: 2137450016 **Sample ID:** PAR-79-202-SB-02-3.5-4 **Sample Type:** SAMPLE

The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the following compounds: n-Nonane (recovery was 24.4% and the limits are 40%-140%) and n-Decane (recovery was 36.8% and the limits are 40%-140%). The QC sample types LCS and LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for precision for the following compounds: n-Nonane (RPD 53.3%, limits 0%-40%), n-Decane (RPD 52.3%, limits 0%-40%), n-Dodecane (RPD 42.6%, limits 0%-40%), n-Tetradecane (RPD 42.6%, limits 0%-40%).

Lab ID: 2137450017 **Sample ID:** PAR-79-202-SB-02-8-8.5 **Sample Type:** SAMPLE

The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the following compounds: n-Nonane (recovery was 24.4% and the limits are 40%-140%) and n-Decane (recovery was 36.8% and the limits are 40%-140%). The QC sample types LCS and LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for precision for the following compounds: n-Nonane (RPD 53.3%, limits 0%-40%), n-Decane (RPD 52.3%, limits 0%-40%), n-Dodecane (RPD 42.6%, limits 0%-40%), n-Tetradecane (RPD 42.6%, limits 0%-40%).

Lab ID: 2137450018 **Sample ID:** PAR-79-202-SB-01-3-3.5 **Sample Type:** SAMPLE

The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the following compounds: n-Nonane (recovery was 24.4% and the limits are 40%-140%) and n-Decane (recovery was 36.8% and the limits are 40%-140%). The QC sample types LCS and LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for precision for the following compounds: n-Nonane (RPD 53.3%, limits 0%-40%), n-Decane (RPD 52.3%, limits 0%-40%), n-Dodecane (RPD 42.6%, limits 0%-40%), n-Tetradecane (RPD 42.6%, limits 0%-40%).

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

PROJECT SUMMARY

Workorder: 2137450 AER164|R1603708

Lab ID: 2137450019

Sample ID: PAR-79-202-SB-01-
9.5-10

Sample Type: SAMPLE

The QC sample type LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for the following compounds: n-Nonane (recovery was 24.4% and the limits are 40%-140%) and n-Decane (recovery was 36.8% and the limits are 40%-140%).
The QC sample types LCS and LCSD in the NJEPH aliphatic analysis recovered outside of method control limits for precision for the following compounds: n-Nonane (RPD 53.3%, limits 0%-40%), n-Decane (RPD 52.3%, limits 0%-40%), n-Dodecane (RPD 42.6%, limits 0%-40%), n-Tetradecane (RPD 42.6%, limits 0%-40%).

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

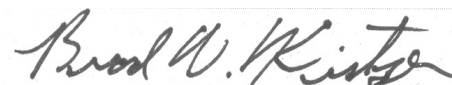
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450001**
Sample ID: **PAR-79-490-SB-01-1.5-2**

Date Collected: 4/12/2016 11:15 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	0.74J	J	mg/kg	1.1	1.1	0.48	NJEPH	4/20/16 PDK	4/23/16 19:52	KJH	B
C12 TO C16	0.31J	J	mg/kg	1.1	1.1	0.19	NJEPH	4/20/16 PDK	4/23/16 19:52	KJH	B
C16 TO C21	0.31J	J	mg/kg	1.1	1.1	0.18	NJEPH	4/20/16 PDK	4/23/16 19:52	KJH	B
C21 TO C36	0.67J	J	mg/kg	1.1	1.1	0.25	NJEPH	4/20/16 PDK	4/23/16 19:52	KJH	B
Total EPH Aromatic	2.0J	J	mg/kg	4.2	4.2	1.1	NJEPH	4/20/16 PDK	4/23/16 19:52	KJH	B
Total EPH (Aliphatic+Aromatic)	4.0J	J	mg/kg	8.5	8.5	2.6	NJEPH	4/20/16 PDK	4/23/16 19:52	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	99.8		%	40 - 140			NJEPH	4/20/16 PDK	4/23/16 19:52	KJH	B
2-Fluorobiphenyl (S)	102		%	40 - 140			NJEPH	4/20/16 PDK	4/23/16 19:52	KJH	B
o-Terphenyl (S)	86.5		%	40 - 140			NJEPH	4/20/16 PDK	4/23/16 19:52	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.40J	J	mg/kg	1.1	1.1	0.13	NJEPH	4/20/16 PDK	4/25/16 01:16	KJH	B1
C12 TO C16	1.1U	U	mg/kg	1.1	1.1	0.46	NJEPH	4/20/16 PDK	4/25/16 01:16	KJH	B1
C16 TO C21	1.1U	U	mg/kg	1.1	1.1	0.45	NJEPH	4/20/16 PDK	4/25/16 01:16	KJH	B1
C21 TO C40	1.1		mg/kg	1.1	1.1	0.52	NJEPH	4/20/16 PDK	4/25/16 01:16	KJH	B1
Total EPH Aliphatic	2.0J	J	mg/kg	4.2	4.2	1.5	NJEPH	4/20/16 PDK	4/25/16 01:16	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	30.4	1	%	40 - 140			NJEPH	4/20/16 PDK	4/25/16 01:16	KJH	B1
WET CHEMISTRY											
Moisture	11.5		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	88.5		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

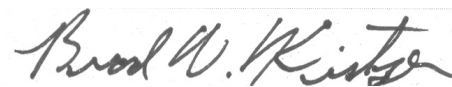
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450002**
Sample ID: **PAR-79-490-SB-01-2-2.5**

Date Collected: 4/12/2016 11:20 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	0.66J	J	mg/kg	1.1	1.1	0.50	NJEPH	4/20/16 PDK	4/23/16 20:51	KJH	B
C12 TO C16	0.24J	J	mg/kg	1.1	1.1	0.20	NJEPH	4/20/16 PDK	4/23/16 20:51	KJH	B
C16 TO C21	0.35J	J	mg/kg	1.1	1.1	0.19	NJEPH	4/20/16 PDK	4/23/16 20:51	KJH	B
C21 TO C36	1.0J	J	mg/kg	1.1	1.1	0.27	NJEPH	4/20/16 PDK	4/23/16 20:51	KJH	B
Total EPH Aromatic	2.3J	J	mg/kg	4.5	4.5	1.2	NJEPH	4/20/16 PDK	4/23/16 20:51	KJH	B
Total EPH (Aliphatic+Aromatic)	3.7J	J	mg/kg	9.0	9.0	2.8	NJEPH	4/20/16 PDK	4/23/16 20:51	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	95.7		%	40 - 140			NJEPH	4/20/16 PDK	4/23/16 20:51	KJH	B
2-Fluorobiphenyl (S)	95.9		%	40 - 140			NJEPH	4/20/16 PDK	4/23/16 20:51	KJH	B
o-Terphenyl (S)	79.2		%	40 - 140			NJEPH	4/20/16 PDK	4/23/16 20:51	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.33J	J	mg/kg	1.1	1.1	0.13	NJEPH	4/20/16 PDK	4/25/16 02:15	KJH	B1
C12 TO C16	1.1U	U	mg/kg	1.1	1.1	0.48	NJEPH	4/20/16 PDK	4/25/16 02:15	KJH	B1
C16 TO C21	1.1U	U	mg/kg	1.1	1.1	0.47	NJEPH	4/20/16 PDK	4/25/16 02:15	KJH	B1
C21 TO C40	0.74J	J	mg/kg	1.1	1.1	0.55	NJEPH	4/20/16 PDK	4/25/16 02:15	KJH	B1
Total EPH Aliphatic	4.5U	U	mg/kg	4.5	4.5	1.6	NJEPH	4/20/16 PDK	4/25/16 02:15	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	25.4	1	%	40 - 140			NJEPH	4/20/16 PDK	4/25/16 02:15	KJH	B1
WET CHEMISTRY											
Moisture	16.3		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	83.7		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

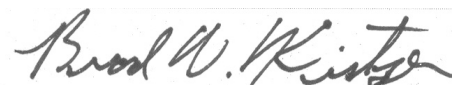
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450003**
Sample ID: **PAR-79-490-SB-01-9.5-10**

Date Collected: 4/12/2016 11:25 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.3U	U	mg/kg	1.3	1.3	0.59	NJEPH	4/20/16 PDK	4/23/16 21:50	KJH	B
C12 TO C16	0.31J	J	mg/kg	1.3	1.3	0.24	NJEPH	4/20/16 PDK	4/23/16 21:50	KJH	B
C16 TO C21	0.54J	J	mg/kg	1.3	1.3	0.22	NJEPH	4/20/16 PDK	4/23/16 21:50	KJH	B
C21 TO C36	1.3U	U	mg/kg	1.3	1.3	0.31	NJEPH	4/20/16 PDK	4/23/16 21:50	KJH	B
Total EPH Aromatic	1.7J	J	mg/kg	5.2	5.2	1.4	NJEPH	4/20/16 PDK	4/23/16 21:50	KJH	B
Total EPH (Aliphatic+Aromatic)	3.8J	J	mg/kg	10.5	10.5	3.3	NJEPH	4/20/16 PDK	4/23/16 21:50	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	90		%	40 - 140			NJEPH	4/20/16 PDK	4/23/16 21:50	KJH	B
2-Fluorobiphenyl (S)	89.7		%	40 - 140			NJEPH	4/20/16 PDK	4/23/16 21:50	KJH	B
o-Terphenyl (S)	68.2		%	40 - 140			NJEPH	4/20/16 PDK	4/23/16 21:50	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.42J	J	mg/kg	1.3	1.3	0.16	NJEPH	4/20/16 PDK	4/25/16 03:14	KJH	B1
C12 TO C16	1.3U	U	mg/kg	1.3	1.3	0.56	NJEPH	4/20/16 PDK	4/25/16 03:14	KJH	B1
C16 TO C21	1.3U	U	mg/kg	1.3	1.3	0.55	NJEPH	4/20/16 PDK	4/25/16 03:14	KJH	B1
C21 TO C40	1.2J	J	mg/kg	1.3	1.3	0.64	NJEPH	4/20/16 PDK	4/25/16 03:14	KJH	B1
Total EPH Aliphatic	2.2J	J	mg/kg	5.2	5.2	1.9	NJEPH	4/20/16 PDK	4/25/16 03:14	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	25.6	1	%	40 - 140			NJEPH	4/20/16 PDK	4/25/16 03:14	KJH	B1
WET CHEMISTRY											
Moisture	25.1		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	74.9		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

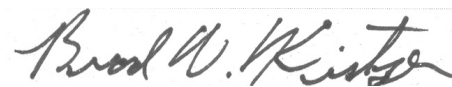
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450004**
Sample ID: **PAR-79-490-SB-02-2-2.5**

Date Collected: 4/12/2016 10:25 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.2U	U	mg/kg	1.2	1.2	0.54	NJEPH	4/20/16 PDK	4/23/16 23:47	KJH	B
C12 TO C16	0.23J	J	mg/kg	1.2	1.2	0.22	NJEPH	4/20/16 PDK	4/23/16 23:47	KJH	B
C16 TO C21	0.80J	J	mg/kg	1.2	1.2	0.21	NJEPH	4/20/16 PDK	4/23/16 23:47	KJH	B
C21 TO C36	0.65J	J	mg/kg	1.2	1.2	0.29	NJEPH	4/20/16 PDK	4/23/16 23:47	KJH	B
Total EPH Aromatic	2.0J	J	mg/kg	4.8	4.8	1.3	NJEPH	4/20/16 PDK	4/23/16 23:47	KJH	B
Total EPH (Aliphatic+Aromatic)	4.9J	J	mg/kg	9.6	9.6	3.0	NJEPH	4/20/16 PDK	4/23/16 23:47	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	85.1		%	40 - 140			NJEPH	4/20/16 PDK	4/23/16 23:47	KJH	B
2-Fluorobiphenyl (S)	85.2		%	40 - 140			NJEPH	4/20/16 PDK	4/23/16 23:47	KJH	B
o-Terphenyl (S)	55.6		%	40 - 140			NJEPH	4/20/16 PDK	4/23/16 23:47	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.50J	J	mg/kg	1.2	1.2	0.14	NJEPH	4/20/16 PDK	4/25/16 04:14	KJH	B1
C12 TO C16	1.2U	U	mg/kg	1.2	1.2	0.52	NJEPH	4/20/16 PDK	4/25/16 04:14	KJH	B1
C16 TO C21	1.2U	U	mg/kg	1.2	1.2	0.51	NJEPH	4/20/16 PDK	4/25/16 04:14	KJH	B1
C21 TO C40	1.9		mg/kg	1.2	1.2	0.59	NJEPH	4/20/16 PDK	4/25/16 04:14	KJH	B1
Total EPH Aliphatic	2.9J	J	mg/kg	4.8	4.8	1.8	NJEPH	4/20/16 PDK	4/25/16 04:14	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	20.1	1	%	40 - 140			NJEPH	4/20/16 PDK	4/25/16 04:14	KJH	B1
WET CHEMISTRY											
Moisture	20.8		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	79.2		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

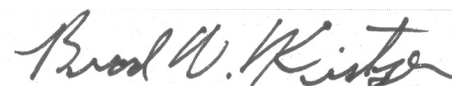
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450005**
Sample ID: **PAR-79-490-SB-02-3.5-4**

Date Collected: 4/12/2016 10:30 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.6		mg/kg	1.1	1.1	0.50	NJEPH	4/20/16 PDK	4/24/16 00:47	KJH	B
C12 TO C16	46.0		mg/kg	5.6	5.6	1.0	NJEPH	4/20/16 PDK	4/27/16 20:33	KJH	B
C16 TO C21	109		mg/kg	5.6	5.6	0.95	NJEPH	4/20/16 PDK	4/27/16 20:33	KJH	B
C21 TO C36	10.2		mg/kg	1.1	1.1	0.27	NJEPH	4/20/16 PDK	4/24/16 00:47	KJH	B
Total EPH Aromatic	166		mg/kg	4.5	4.5	1.2	NJEPH	4/20/16 PDK	4/24/16 00:47	KJH	B
Total EPH (Aliphatic+Aromatic)	413		mg/kg	8.9	8.9	2.8	NJEPH	4/20/16 PDK	4/24/16 00:47	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	101		%	40 - 140			NJEPH	4/20/16 PDK	4/27/16 20:33	KJH	B
2-Bromonaphthalene (S)	81.6		%	40 - 140			NJEPH	4/20/16 PDK	4/24/16 00:47	KJH	B
2-Fluorobiphenyl (S)	78		%	40 - 140			NJEPH	4/20/16 PDK	4/24/16 00:47	KJH	B
2-Fluorobiphenyl (S)	107		%	40 - 140			NJEPH	4/20/16 PDK	4/27/16 20:33	KJH	B
o-Terphenyl (S)	61.4		%	40 - 140			NJEPH	4/20/16 PDK	4/24/16 00:47	KJH	B
o-Terphenyl (S)	83.4		%	40 - 140			NJEPH	4/20/16 PDK	4/27/16 20:33	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	15.8		mg/kg	11.1	11.1	1.3	NJEPH	4/20/16 PDK	4/28/16 00:26	KJH	B1
C12 TO C16	129		mg/kg	11.1	11.1	4.8	NJEPH	4/20/16 PDK	4/28/16 00:26	KJH	B1
C16 TO C21	92.5		mg/kg	11.1	11.1	4.7	NJEPH	4/20/16 PDK	4/28/16 00:26	KJH	B1
C21 TO C40	9.3		mg/kg	1.1	1.1	0.55	NJEPH	4/20/16 PDK	4/25/16 05:12	KJH	B1
Total EPH Aliphatic	246		mg/kg	4.5	4.5	1.6	NJEPH	4/20/16 PDK	4/25/16 05:12	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	19.4		%	40 - 140			NJEPH	4/20/16 PDK	4/28/16 00:26	KJH	B1
1-Chlorooctadecane (S)	21.5	1	%	40 - 140			NJEPH	4/20/16 PDK	4/25/16 05:12	KJH	B1
WET CHEMISTRY											
Moisture	15.3		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	84.7		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

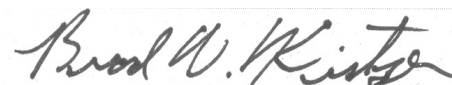
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450006**
Sample ID: **PAR-79-490-SB-02-8-8.5**

Date Collected: 4/12/2016 10:35 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.3U	U	mg/kg	1.3	1.3	0.60	NJEPH	4/20/16 PDK	4/24/16 01:45	KJH	B
C12 TO C16	1.3U	U	mg/kg	1.3	1.3	0.24	NJEPH	4/20/16 PDK	4/24/16 01:45	KJH	B
C16 TO C21	0.69J	J	mg/kg	1.3	1.3	0.23	NJEPH	4/20/16 PDK	4/24/16 01:45	KJH	B
C21 TO C36	0.39J	J	mg/kg	1.3	1.3	0.32	NJEPH	4/20/16 PDK	4/24/16 01:45	KJH	B
Total EPH Aromatic	1.6J	J	mg/kg	5.4	5.4	1.4	NJEPH	4/20/16 PDK	4/24/16 01:45	KJH	B
Total EPH (Aliphatic+Aromatic)	10.7U	U	mg/kg	10.7	10.7	3.3	NJEPH	4/20/16 PDK	4/24/16 01:45	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	90.4		%	40 - 140			NJEPH	4/20/16 PDK	4/24/16 01:45	KJH	B
2-Fluorobiphenyl (S)	91.3		%	40 - 140			NJEPH	4/20/16 PDK	4/24/16 01:45	KJH	B
o-Terphenyl (S)	66.5		%	40 - 140			NJEPH	4/20/16 PDK	4/24/16 01:45	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.25J	J	mg/kg	1.3	1.3	0.16	NJEPH	4/20/16 PDK	4/25/16 06:09	KJH	B1
C12 TO C16	1.3U	U	mg/kg	1.3	1.3	0.58	NJEPH	4/20/16 PDK	4/25/16 06:09	KJH	B1
C16 TO C21	1.3U	U	mg/kg	1.3	1.3	0.56	NJEPH	4/20/16 PDK	4/25/16 06:09	KJH	B1
C21 TO C40	1.3U	U	mg/kg	1.3	1.3	0.66	NJEPH	4/20/16 PDK	4/25/16 06:09	KJH	B1
Total EPH Aliphatic	5.4U	U	mg/kg	5.4	5.4	2.0	NJEPH	4/20/16 PDK	4/25/16 06:09	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	20.4	1	%	40 - 140			NJEPH	4/20/16 PDK	4/25/16 06:09	KJH	B1
WET CHEMISTRY											
Moisture	28.2		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	71.8		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450007**
Sample ID: **PAR-79-490-SB-03-2-2.5**

Date Collected: 4/12/2016 11:40 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	0.54J	J	mg/kg	1.1	1.1	0.49	NJEPH	4/20/16 PDK	4/24/16 02:45	KJH	B
C12 TO C16	0.58J	J	mg/kg	1.1	1.1	0.20	NJEPH	4/20/16 PDK	4/24/16 02:45	KJH	B
C16 TO C21	6.7		mg/kg	1.1	1.1	0.19	NJEPH	4/20/16 PDK	4/24/16 02:45	KJH	B
C21 TO C36	108		mg/kg	5.5	5.5	1.3	NJEPH	4/20/16 PDK	4/27/16 21:31	KJH	B
Total EPH Aromatic	116		mg/kg	4.4	4.4	1.1	NJEPH	4/20/16 PDK	4/24/16 02:45	KJH	B
Total EPH (Aliphatic+Aromatic)	378		mg/kg	8.8	8.8	2.7	NJEPH	4/20/16 PDK	4/24/16 02:45	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	95.3		%	40 - 140			NJEPH	4/20/16 PDK	4/24/16 02:45	KJH	B
2-Bromonaphthalene (S)	114		%	40 - 140			NJEPH	4/20/16 PDK	4/27/16 21:31	KJH	B
2-Fluorobiphenyl (S)	115		%	40 - 140			NJEPH	4/20/16 PDK	4/27/16 21:31	KJH	B
2-Fluorobiphenyl (S)	94.8		%	40 - 140			NJEPH	4/20/16 PDK	4/24/16 02:45	KJH	B
o-Terphenyl (S)	52.9		%	40 - 140			NJEPH	4/20/16 PDK	4/24/16 02:45	KJH	B
o-Terphenyl (S)	86.9		%	40 - 140			NJEPH	4/20/16 PDK	4/27/16 21:31	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.39J	J	mg/kg	1.1	1.1	0.13	NJEPH	4/20/16 PDK	4/25/16 07:08	KJH	B1
C12 TO C16	0.51J	J	mg/kg	1.1	1.1	0.47	NJEPH	4/20/16 PDK	4/25/16 07:08	KJH	B1
C16 TO C21	15.1		mg/kg	1.1	1.1	0.46	NJEPH	4/20/16 PDK	4/25/16 07:08	KJH	B1
C21 TO C40	246		mg/kg	11.0	11.0	5.4	NJEPH	4/20/16 PDK	4/28/16 01:24	KJH	B1
Total EPH Aliphatic	262		mg/kg	4.4	4.4	1.6	NJEPH	4/20/16 PDK	4/25/16 07:08	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	14.8	1	%	40 - 140			NJEPH	4/20/16 PDK	4/25/16 07:08	KJH	B1
1-Chlorooctadecane (S)	14.5		%	40 - 140			NJEPH	4/20/16 PDK	4/28/16 01:24	KJH	B1
WET CHEMISTRY											
Moisture	14.0		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	86.0		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

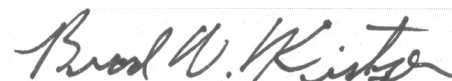
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450008**
Sample ID: **PAR-79-490-SB-03-6-6.5**

Date Collected: 4/12/2016 11:45 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.5		mg/kg	1.3	1.3	0.57	NJEPH	4/20/16 PDK	5/3/16 15:59	KJH	B
C12 TO C16	4.3		mg/kg	1.3	1.3	0.23	NJEPH	4/20/16 PDK	5/3/16 15:59	KJH	B
C16 TO C21	7.9		mg/kg	1.3	1.3	0.22	NJEPH	4/20/16 PDK	5/3/16 15:59	KJH	B
C21 TO C36	1.6		mg/kg	1.3	1.3	0.31	NJEPH	4/20/16 PDK	5/3/16 15:59	KJH	B
Total EPH Aromatic	15.3		mg/kg	5.1	5.1	1.3	NJEPH	4/20/16 PDK	5/3/16 15:59	KJH	B
Total EPH (Aliphatic+Aromatic)	43.2		mg/kg	10.2	10.2	3.2	NJEPH	4/20/16 PDK	5/3/16 15:59	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	102		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 15:59	KJH	B
2-Fluorobiphenyl (S)	100		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 15:59	KJH	B
o-Terphenyl (S)	78.7		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 15:59	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	2.4		mg/kg	1.3	1.3	0.15	NJEPH	4/20/16 PDK	4/29/16 12:09	KJH	B1
C12 TO C16	9.5		mg/kg	1.3	1.3	0.55	NJEPH	4/20/16 PDK	4/29/16 12:09	KJH	B1
C16 TO C21	9.5		mg/kg	1.3	1.3	0.54	NJEPH	4/20/16 PDK	4/29/16 12:09	KJH	B1
C21 TO C40	6.5		mg/kg	1.3	1.3	0.63	NJEPH	4/20/16 PDK	4/29/16 12:09	KJH	B1
Total EPH Aliphatic	27.9		mg/kg	5.1	5.1	1.9	NJEPH	4/20/16 PDK	4/29/16 12:09	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	27.4	1	%	40 - 140			NJEPH	4/20/16 PDK	4/29/16 12:09	KJH	B1
WET CHEMISTRY											
Moisture	22.2		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	77.8		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B


Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450009**

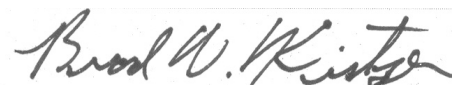
Date Collected: 4/12/2016 11:50

Matrix: Solid

Sample ID: **PAR-79-490-SB-03-9.5-10**

Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.1J	J	mg/kg	1.3	1.3	0.57	NJEPH	4/20/16 PDK	5/3/16 16:58	KJH	B
C12 TO C16	0.54J	J	mg/kg	1.3	1.3	0.23	NJEPH	4/20/16 PDK	5/3/16 16:58	KJH	B
C16 TO C21	1.3U	U	mg/kg	1.3	1.3	0.22	NJEPH	4/20/16 PDK	5/3/16 16:58	KJH	B
C21 TO C36	0.40J	J	mg/kg	1.3	1.3	0.30	NJEPH	4/20/16 PDK	5/3/16 16:58	KJH	B
Total EPH Aromatic	2.2J	J	mg/kg	5.1	5.1	1.3	NJEPH	4/20/16 PDK	5/3/16 16:58	KJH	B
Total EPH (Aliphatic+Aromatic)	5.5J	J	mg/kg	10.1	10.1	3.2	NJEPH	4/20/16 PDK	5/3/16 16:58	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	108		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 16:58	KJH	B
2-Fluorobiphenyl (S)	107		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 16:58	KJH	B
o-Terphenyl (S)	86.9		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 16:58	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.64J	J	mg/kg	1.3	1.3	0.15	NJEPH	4/20/16 PDK	4/29/16 13:06	KJH	B1
C12 TO C16	1.3U	U	mg/kg	1.3	1.3	0.54	NJEPH	4/20/16 PDK	4/29/16 13:06	KJH	B1
C16 TO C21	1.3U	U	mg/kg	1.3	1.3	0.53	NJEPH	4/20/16 PDK	4/29/16 13:06	KJH	B1
C21 TO C40	1.9		mg/kg	1.3	1.3	0.62	NJEPH	4/20/16 PDK	4/29/16 13:06	KJH	B1
Total EPH Aliphatic	3.3J	J	mg/kg	5.1	5.1	1.8	NJEPH	4/20/16 PDK	4/29/16 13:06	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	25.3	1	%	40 - 140			NJEPH	4/20/16 PDK	4/29/16 13:06	KJH	B1
WET CHEMISTRY											
Moisture	25.9		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	74.1		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450010**

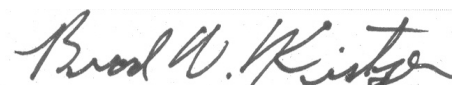
Date Collected: 4/12/2016 09:30

Matrix: Solid

Sample ID: **PAR-79-490-SB-04-2-2.5**

Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.3J	J	mg/kg	1.3	1.3	0.61	NJEPH	4/20/16 PDK	5/3/16 17:56	KJH	B
C12 TO C16	13.8		mg/kg	1.3	1.3	0.24	NJEPH	4/20/16 PDK	5/3/16 17:56	KJH	B
C16 TO C21	18.5		mg/kg	1.3	1.3	0.23	NJEPH	4/20/16 PDK	5/3/16 17:56	KJH	B
C21 TO C36	2.7		mg/kg	1.3	1.3	0.32	NJEPH	4/20/16 PDK	5/3/16 17:56	KJH	B
Total EPH Aromatic	36.3		mg/kg	5.4	5.4	1.4	NJEPH	4/20/16 PDK	5/3/16 17:56	KJH	B
Total EPH (Aliphatic+Aromatic)	91.4		mg/kg	10.8	10.8	3.4	NJEPH	4/20/16 PDK	5/3/16 17:56	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	96		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 17:56	KJH	B
2-Fluorobiphenyl (S)	94.9		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 17:56	KJH	B
o-Terphenyl (S)	66.4		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 17:56	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	5.8		mg/kg	1.3	1.3	0.16	NJEPH	4/20/16 PDK	4/29/16 14:04	KJH	B1
C12 TO C16	24.6		mg/kg	2.7	2.7	1.2	NJEPH	4/20/16 PDK	5/1/16 12:59	KJH	B1
C16 TO C21	21.0		mg/kg	1.3	1.3	0.57	NJEPH	4/20/16 PDK	4/29/16 14:04	KJH	B1
C21 TO C40	3.5		mg/kg	1.3	1.3	0.66	NJEPH	4/20/16 PDK	4/29/16 14:04	KJH	B1
Total EPH Aliphatic	55.0		mg/kg	5.4	5.4	2.0	NJEPH	4/20/16 PDK	4/29/16 14:04	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	36.1		%	40 - 140			NJEPH	4/20/16 PDK	5/1/16 12:59	KJH	B1
1-Chlorooctadecane (S)	39.9	1	%	40 - 140			NJEPH	4/20/16 PDK	4/29/16 14:04	KJH	B1
WET CHEMISTRY											
Moisture	29.1		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	70.9		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

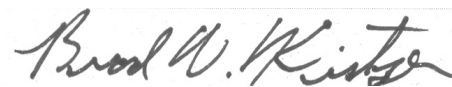
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450011**
Sample ID: **PAR-79-490-SB-04-3.5-4**

Date Collected: 4/12/2016 09:35 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	19.9		mg/kg	6.4	6.4	2.9	NJEPH	4/20/16 PDK	5/4/16 14:38	KJH	B
C12 TO C16	309		mg/kg	64.1	64.1	11.5	NJEPH	4/20/16 PDK	5/4/16 15:37	KJH	B
C16 TO C21	453		mg/kg	64.1	64.1	10.9	NJEPH	4/20/16 PDK	5/4/16 15:37	KJH	B
C21 TO C36	43.3		mg/kg	1.3	1.3	0.31	NJEPH	4/20/16 PDK	5/3/16 18:54	KJH	B
Total EPH Aromatic	825		mg/kg	5.1	5.1	1.3	NJEPH	4/20/16 PDK	5/3/16 18:54	KJH	B
Total EPH (Aliphatic+Aromatic)	1600		mg/kg	10.2	10.2	3.2	NJEPH	4/20/16 PDK	5/3/16 18:54	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	97.9		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 18:54	KJH	B
2-Fluorobiphenyl (S)	114		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 18:54	KJH	B
o-Terphenyl (S)	110		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 18:54	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	104		mg/kg	12.8	12.8	1.5	NJEPH	4/20/16 PDK	5/1/16 13:57	KJH	B1
C12 TO C16	357J	J	mg/kg	641	641	275	NJEPH	4/20/16 PDK	5/1/16 14:56	KJH	B1
C16 TO C21	270J	J	mg/kg	641	641	269	NJEPH	4/20/16 PDK	5/1/16 14:56	KJH	B1
C21 TO C40	41.1		mg/kg	1.3	1.3	0.63	NJEPH	4/20/16 PDK	4/29/16 15:02	KJH	B1
Total EPH Aliphatic	772		mg/kg	5.1	5.1	1.9	NJEPH	4/20/16 PDK	4/29/16 15:02	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	34.7	1	%	40 - 140			NJEPH	4/20/16 PDK	4/29/16 15:02	KJH	B1
WET CHEMISTRY											
Moisture	24.5		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	75.5		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

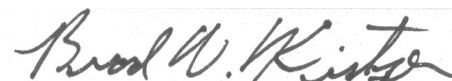
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450012**
Sample ID: **PAR-79-202-SB-03-2-2.5**

Date Collected: 4/12/2016 14:30 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	0.64J	J	mg/kg	1.2	1.2	0.53	NJEPH	4/20/16 PDK	5/3/16 19:53	KJH	B
C12 TO C16	0.76J	J	mg/kg	1.2	1.2	0.21	NJEPH	4/20/16 PDK	5/3/16 19:53	KJH	B
C16 TO C21	0.76J	J	mg/kg	1.2	1.2	0.20	NJEPH	4/20/16 PDK	5/3/16 19:53	KJH	B
C21 TO C36	1.0J	J	mg/kg	1.2	1.2	0.28	NJEPH	4/20/16 PDK	5/3/16 19:53	KJH	B
Total EPH Aromatic	3.2J	J	mg/kg	4.7	4.7	1.2	NJEPH	4/20/16 PDK	5/3/16 19:53	KJH	B
Total EPH (Aliphatic+Aromatic)	6.0J	J	mg/kg	9.5	9.5	3.0	NJEPH	4/20/16 PDK	5/3/16 19:53	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	92		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 19:53	KJH	B
2-Fluorobiphenyl (S)	92.1		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 19:53	KJH	B
o-Terphenyl (S)	78.8		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 19:53	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.25J	J	mg/kg	1.2	1.2	0.14	NJEPH	4/20/16 PDK	4/29/16 15:59	KJH	B1
C12 TO C16	1.2U	U	mg/kg	1.2	1.2	0.51	NJEPH	4/20/16 PDK	4/29/16 15:59	KJH	B1
C16 TO C21	0.51J	J	mg/kg	1.2	1.2	0.50	NJEPH	4/20/16 PDK	4/29/16 15:59	KJH	B1
C21 TO C40	1.5		mg/kg	1.2	1.2	0.58	NJEPH	4/20/16 PDK	4/29/16 15:59	KJH	B1
Total EPH Aliphatic	2.8J	J	mg/kg	4.7	4.7	1.7	NJEPH	4/20/16 PDK	4/29/16 15:59	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	55.9		%	40 - 140			NJEPH	4/20/16 PDK	4/29/16 15:59	KJH	B1
WET CHEMISTRY											
Moisture	16.5		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	83.5		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B


Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

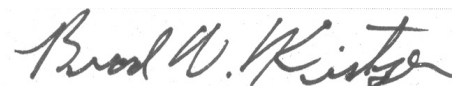
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450013**
Sample ID: **PAR-79-202-SB-03-3-3.5**

Date Collected: 4/12/2016 14:35 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.2U	U	mg/kg	1.2	1.2	0.55	NJEPH	4/20/16 PDK	5/3/16 20:50	KJH	B
C12 TO C16	0.32J	J	mg/kg	1.2	1.2	0.22	NJEPH	4/20/16 PDK	5/3/16 20:50	KJH	B
C16 TO C21	0.38J	J	mg/kg	1.2	1.2	0.21	NJEPH	4/20/16 PDK	5/3/16 20:50	KJH	B
C21 TO C36	0.50J	J	mg/kg	1.2	1.2	0.29	NJEPH	4/20/16 PDK	5/3/16 20:50	KJH	B
Total EPH Aromatic	1.7J	J	mg/kg	4.9	4.9	1.3	NJEPH	4/20/16 PDK	5/3/16 20:50	KJH	B
Total EPH (Aliphatic+Aromatic)	3.9J	J	mg/kg	9.8	9.8	3.1	NJEPH	4/20/16 PDK	5/3/16 20:50	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	99.7		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 20:50	KJH	B
2-Fluorobiphenyl (S)	99.6		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 20:50	KJH	B
o-Terphenyl (S)	85.3		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 20:50	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.23J	J	mg/kg	1.2	1.2	0.15	NJEPH	4/20/16 PDK	4/29/16 16:57	KJH	B1
C12 TO C16	1.2U	U	mg/kg	1.2	1.2	0.52	NJEPH	4/20/16 PDK	4/29/16 16:57	KJH	B1
C16 TO C21	1.2U	U	mg/kg	1.2	1.2	0.51	NJEPH	4/20/16 PDK	4/29/16 16:57	KJH	B1
C21 TO C40	1.4		mg/kg	1.2	1.2	0.60	NJEPH	4/20/16 PDK	4/29/16 16:57	KJH	B1
Total EPH Aliphatic	2.2J	J	mg/kg	4.9	4.9	1.8	NJEPH	4/20/16 PDK	4/29/16 16:57	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	48.5		%	40 - 140			NJEPH	4/20/16 PDK	4/29/16 16:57	KJH	B1
WET CHEMISTRY											
Moisture	20.2		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	79.8		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

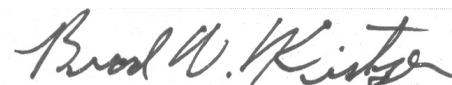
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450014**
Sample ID: **PAR-79-202-SB-03-9.5-10**

Date Collected: 4/12/2016 14:40 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	0.93J	J	mg/kg	1.4	1.4	0.64	NJEPH	4/20/16 PDK	5/3/16 21:49	KJH	B
C12 TO C16	0.64J	J	mg/kg	1.4	1.4	0.26	NJEPH	4/20/16 PDK	5/3/16 21:49	KJH	B
C16 TO C21	0.25J	J	mg/kg	1.4	1.4	0.24	NJEPH	4/20/16 PDK	5/3/16 21:49	KJH	B
C21 TO C36	0.39J	J	mg/kg	1.4	1.4	0.34	NJEPH	4/20/16 PDK	5/3/16 21:49	KJH	B
Total EPH Aromatic	2.2J	J	mg/kg	5.7	5.7	1.5	NJEPH	4/20/16 PDK	5/3/16 21:49	KJH	B
Total EPH (Aliphatic+Aromatic)	4.8J	J	mg/kg	11.4	11.4	3.6	NJEPH	4/20/16 PDK	5/3/16 21:49	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	107		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 21:49	KJH	B
2-Fluorobiphenyl (S)	107		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 21:49	KJH	B
o-Terphenyl (S)	81.3		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 21:49	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.28J	J	mg/kg	1.4	1.4	0.17	NJEPH	4/20/16 PDK	4/29/16 17:55	KJH	B1
C12 TO C16	1.4U	U	mg/kg	1.4	1.4	0.61	NJEPH	4/20/16 PDK	4/29/16 17:55	KJH	B1
C16 TO C21	1.4U	U	mg/kg	1.4	1.4	0.60	NJEPH	4/20/16 PDK	4/29/16 17:55	KJH	B1
C21 TO C40	1.9		mg/kg	1.4	1.4	0.70	NJEPH	4/20/16 PDK	4/29/16 17:55	KJH	B1
Total EPH Aliphatic	2.8J	J	mg/kg	5.7	5.7	2.1	NJEPH	4/20/16 PDK	4/29/16 17:55	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	34.2	1	%	40 - 140			NJEPH	4/20/16 PDK	4/29/16 17:55	KJH	B1
WET CHEMISTRY											
Moisture	34.1		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	65.9		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

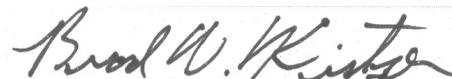
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450015**
Sample ID: **PAR-79-202-SB-02-3-3.5**

Date Collected: 4/12/2016 14:00 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.2J	J	mg/kg	1.3	1.3	0.57	NJEPH	4/20/16 PDK	5/3/16 22:47	KJH	B
C12 TO C16	1.7		mg/kg	1.3	1.3	0.23	NJEPH	4/20/16 PDK	5/3/16 22:47	KJH	B
C16 TO C21	1.1J	J	mg/kg	1.3	1.3	0.21	NJEPH	4/20/16 PDK	5/3/16 22:47	KJH	B
C21 TO C36	3.9		mg/kg	1.3	1.3	0.30	NJEPH	4/20/16 PDK	5/3/16 22:47	KJH	B
Total EPH Aromatic	8.0		mg/kg	5.1	5.1	1.3	NJEPH	4/20/16 PDK	5/3/16 22:47	KJH	B
Total EPH (Aliphatic+Aromatic)	17.7		mg/kg	10.1	10.1	3.2	NJEPH	4/20/16 PDK	5/3/16 22:47	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	103		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 22:47	KJH	B
2-Fluorobiphenyl (S)	101		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 22:47	KJH	B
o-Terphenyl (S)	71.4		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 22:47	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.46J	J	mg/kg	1.3	1.3	0.15	NJEPH	4/20/16 PDK	4/29/16 18:54	KJH	B1
C12 TO C16	1.3U	U	mg/kg	1.3	1.3	0.54	NJEPH	4/20/16 PDK	4/29/16 18:54	KJH	B1
C16 TO C21	0.72J	J	mg/kg	1.3	1.3	0.53	NJEPH	4/20/16 PDK	4/29/16 18:54	KJH	B1
C21 TO C40	8.2		mg/kg	1.3	1.3	0.62	NJEPH	4/20/16 PDK	4/29/16 18:54	KJH	B1
Total EPH Aliphatic	9.8		mg/kg	5.1	5.1	1.8	NJEPH	4/20/16 PDK	4/29/16 18:54	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	26.6	1	%	40 - 140			NJEPH	4/20/16 PDK	4/29/16 18:54	KJH	B1
WET CHEMISTRY											
Moisture	25.4		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	74.6		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B


Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

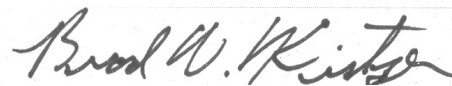
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450016**
Sample ID: **PAR-79-202-SB-02-3.5-4**

Date Collected: 4/12/2016 14:05 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.7		mg/kg	1.3	1.3	0.60	NJEPH	4/20/16 PDK	5/3/16 23:46	KJH	B
C12 TO C16	33.3		mg/kg	6.7	6.7	1.2	NJEPH	4/20/16 PDK	5/4/16 16:35	KJH	B
C16 TO C21	80.6		mg/kg	6.7	6.7	1.1	NJEPH	4/20/16 PDK	5/4/16 16:35	KJH	B
C21 TO C36	9.0		mg/kg	1.3	1.3	0.32	NJEPH	4/20/16 PDK	5/3/16 23:46	KJH	B
Total EPH Aromatic	125		mg/kg	5.3	5.3	1.4	NJEPH	4/20/16 PDK	5/3/16 23:46	KJH	B
Total EPH (Aliphatic+Aromatic)	345		mg/kg	10.7	10.7	3.3	NJEPH	4/20/16 PDK	5/3/16 23:46	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	91.9		%	40 - 140			NJEPH	4/20/16 PDK	5/4/16 16:35	KJH	B
2-Bromonaphthalene (S)	92.7		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 23:46	KJH	B
2-Fluorobiphenyl (S)	93.9		%	40 - 140			NJEPH	4/20/16 PDK	5/4/16 16:35	KJH	B
2-Fluorobiphenyl (S)	92		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 23:46	KJH	B
o-Terphenyl (S)	79		%	40 - 140			NJEPH	4/20/16 PDK	5/4/16 16:35	KJH	B
o-Terphenyl (S)	68.8		%	40 - 140			NJEPH	4/20/16 PDK	5/3/16 23:46	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	14.3		mg/kg	13.4	13.4	1.6	NJEPH	4/20/16 PDK	5/1/16 15:55	KJH	B1
C12 TO C16	106		mg/kg	13.4	13.4	5.7	NJEPH	4/20/16 PDK	5/1/16 15:55	KJH	B1
C16 TO C21	90.2		mg/kg	13.4	13.4	5.6	NJEPH	4/20/16 PDK	5/1/16 15:55	KJH	B1
WET CHEMISTRY											
Moisture	27.6		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	72.4		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
C21 TO C40	9.6		mg/kg	1.3	1.3	0.66	NJEPH	4/20/16 PDK	4/29/16 19:53	KJH	B1
Total EPH Aliphatic	220		mg/kg	5.3	5.3	2.0	NJEPH	4/20/16 PDK	4/29/16 19:53	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	27.2	1	%	40 - 140			NJEPH	4/20/16 PDK	4/29/16 19:53	KJH	B1
1-Chlorooctadecane (S)	21.9		%	40 - 140			NJEPH	4/20/16 PDK	5/1/16 15:55	KJH	B1



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

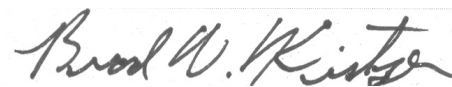
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450017**
Sample ID: **PAR-79-202-SB-02-8-8.5**

Date Collected: 4/12/2016 14:10 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	0.90J	J	mg/kg	1.3	1.3	0.57	NJEPH	4/20/16 PDK	5/4/16 00:44	KJH	B
C12 TO C16	0.56J	J	mg/kg	1.3	1.3	0.23	NJEPH	4/20/16 PDK	5/4/16 00:44	KJH	B
C16 TO C21	0.56J	J	mg/kg	1.3	1.3	0.22	NJEPH	4/20/16 PDK	5/4/16 00:44	KJH	B
C21 TO C36	0.70J	J	mg/kg	1.3	1.3	0.30	NJEPH	4/20/16 PDK	5/4/16 00:44	KJH	B
Total EPH Aromatic	2.7J	J	mg/kg	5.1	5.1	1.3	NJEPH	4/20/16 PDK	5/4/16 00:44	KJH	B
Total EPH (Aliphatic+Aromatic)	5.0J	J	mg/kg	10.1	10.1	3.2	NJEPH	4/20/16 PDK	5/4/16 00:44	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	100		%	40 - 140			NJEPH	4/20/16 PDK	5/4/16 00:44	KJH	B
2-Fluorobiphenyl (S)	99		%	40 - 140			NJEPH	4/20/16 PDK	5/4/16 00:44	KJH	B
o-Terphenyl (S)	88.3		%	40 - 140			NJEPH	4/20/16 PDK	5/4/16 00:44	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.50J	J	mg/kg	1.3	1.3	0.15	NJEPH	4/20/16 PDK	4/29/16 20:51	KJH	B1
C12 TO C16	1.3U	U	mg/kg	1.3	1.3	0.54	NJEPH	4/20/16 PDK	4/29/16 20:51	KJH	B1
C16 TO C21	1.3U	U	mg/kg	1.3	1.3	0.53	NJEPH	4/20/16 PDK	4/29/16 20:51	KJH	B1
C21 TO C40	1.2J	J	mg/kg	1.3	1.3	0.62	NJEPH	4/20/16 PDK	4/29/16 20:51	KJH	B1
Total EPH Aliphatic	2.3J	J	mg/kg	5.1	5.1	1.8	NJEPH	4/20/16 PDK	4/29/16 20:51	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	31.8	1	%	40 - 140			NJEPH	4/20/16 PDK	4/29/16 20:51	KJH	B1
WET CHEMISTRY											
Moisture	25.4		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	74.6		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

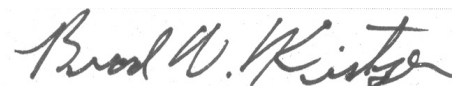
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450018**
Sample ID: **PAR-79-202-SB-01-3-3.5**

Date Collected: 4/12/2016 14:55 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.3U	U	mg/kg	1.3	1.3	0.57	NJEPH	4/20/16 PDK	5/4/16 02:42	KJH	B
C12 TO C16	0.34J	J	mg/kg	1.3	1.3	0.23	NJEPH	4/20/16 PDK	5/4/16 02:42	KJH	B
C16 TO C21	1.3U	U	mg/kg	1.3	1.3	0.21	NJEPH	4/20/16 PDK	5/4/16 02:42	KJH	B
C21 TO C36	0.31J	J	mg/kg	1.3	1.3	0.30	NJEPH	4/20/16 PDK	5/4/16 02:42	KJH	B
Total EPH Aromatic	1.4J	J	mg/kg	5.1	5.1	1.3	NJEPH	4/20/16 PDK	5/4/16 02:42	KJH	B
Total EPH (Aliphatic+Aromatic)	3.8J	J	mg/kg	10.1	10.1	3.2	NJEPH	4/20/16 PDK	5/4/16 02:42	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	97.6		%	40 - 140			NJEPH	4/20/16 PDK	5/4/16 02:42	KJH	B
2-Fluorobiphenyl (S)	97.4		%	40 - 140			NJEPH	4/20/16 PDK	5/4/16 02:42	KJH	B
o-Terphenyl (S)	78.4		%	40 - 140			NJEPH	4/20/16 PDK	5/4/16 02:42	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.52J	J	mg/kg	1.3	1.3	0.15	NJEPH	4/20/16 PDK	4/29/16 22:47	KJH	B1
C12 TO C16	1.3U	U	mg/kg	1.3	1.3	0.54	NJEPH	4/20/16 PDK	4/29/16 22:47	KJH	B1
C16 TO C21	1.3U	U	mg/kg	1.3	1.3	0.53	NJEPH	4/20/16 PDK	4/29/16 22:47	KJH	B1
C21 TO C40	1.3		mg/kg	1.3	1.3	0.62	NJEPH	4/20/16 PDK	4/29/16 22:47	KJH	B1
Total EPH Aliphatic	2.5J	J	mg/kg	5.1	5.1	1.8	NJEPH	4/20/16 PDK	4/29/16 22:47	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	32.4	1	%	40 - 140			NJEPH	4/20/16 PDK	4/29/16 22:47	KJH	B1
WET CHEMISTRY											
Moisture	23.0		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	77.0		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

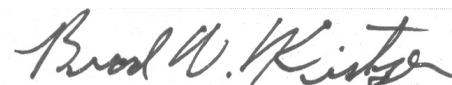
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450019**
Sample ID: **PAR-79-202-SB-01-9.5-10**

Date Collected: 4/12/2016 15:00 Matrix: Solid
Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	1.3J	J	mg/kg	1.3	1.3	0.59	NJEPH	4/20/16 PDK	5/4/16 03:41	KJH	B
C12 TO C16	0.81J	J	mg/kg	1.3	1.3	0.24	NJEPH	4/20/16 PDK	5/4/16 03:41	KJH	B
C16 TO C21	0.55J	J	mg/kg	1.3	1.3	0.22	NJEPH	4/20/16 PDK	5/4/16 03:41	KJH	B
C21 TO C36	0.86J	J	mg/kg	1.3	1.3	0.32	NJEPH	4/20/16 PDK	5/4/16 03:41	KJH	B
Total EPH Aromatic	3.5J	J	mg/kg	5.3	5.3	1.4	NJEPH	4/20/16 PDK	5/4/16 03:41	KJH	B
Total EPH (Aliphatic+Aromatic)	9.8J	J	mg/kg	10.6	10.6	3.3	NJEPH	4/20/16 PDK	5/4/16 03:41	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	102		%	40 - 140			NJEPH	4/20/16 PDK	5/4/16 03:41	KJH	B
2-Fluorobiphenyl (S)	101		%	40 - 140			NJEPH	4/20/16 PDK	5/4/16 03:41	KJH	B
o-Terphenyl (S)	79		%	40 - 140			NJEPH	4/20/16 PDK	5/4/16 03:41	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.63J	J	mg/kg	1.3	1.3	0.16	NJEPH	4/20/16 PDK	4/29/16 23:45	KJH	B1
C12 TO C16	1.8		mg/kg	1.3	1.3	0.57	NJEPH	4/20/16 PDK	4/29/16 23:45	KJH	B1
C16 TO C21	1.6		mg/kg	1.3	1.3	0.55	NJEPH	4/20/16 PDK	4/29/16 23:45	KJH	B1
C21 TO C40	2.3		mg/kg	1.3	1.3	0.65	NJEPH	4/20/16 PDK	4/29/16 23:45	KJH	B1
Total EPH Aliphatic	6.3		mg/kg	5.3	5.3	1.9	NJEPH	4/20/16 PDK	4/29/16 23:45	KJH	B1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	27.6	1	%	40 - 140			NJEPH	4/20/16 PDK	4/29/16 23:45	KJH	B1
WET CHEMISTRY											
Moisture	27.2		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	72.8		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B



Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450020**

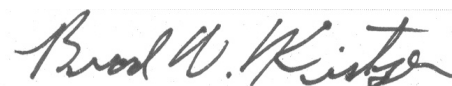
Date Collected: 4/12/2016 15:00

Matrix: Water

Sample ID: **PAR79-EB-04122016**

Date Received: 4/19/2016 08:52

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
PETROLEUM HC's											
Tot Unfractionated EPH C9-C40	0.049J	J	mg/L	0.095	0.095	0.020	NJEPH	4/21/16 JSR	4/25/16 10:13	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	73.9		%	40 - 140			NJEPH	4/21/16 JSR	4/25/16 10:13	KJH	B
o-Terphenyl (S)	90.8		%	40 - 140			NJEPH	4/21/16 JSR	4/25/16 10:13	KJH	B



Mr. Brad W Kintzer

Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

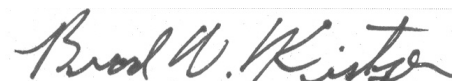
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450021**
Sample ID: **PAR-79-202-SB-01-2-2.5**

Date Collected: 4/12/2016 14:50 Matrix: Solid
Date Received: 4/20/2016 08:59

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	0.86J	J	mg/kg	1.2	1.2	0.53	NJEPH	4/21/16 LEH	5/5/16 02:18	KJH	B
C12 TO C16	0.66J	J	mg/kg	1.2	1.2	0.21	NJEPH	4/21/16 LEH	5/5/16 02:18	KJH	B
C16 TO C21	0.44J	J	mg/kg	1.2	1.2	0.20	NJEPH	4/21/16 LEH	5/5/16 02:18	KJH	B
C21 TO C36	2.1		mg/kg	1.2	1.2	0.28	NJEPH	4/21/16 LEH	5/5/16 02:18	KJH	B
Total EPH Aromatic	4.0J	J	mg/kg	4.7	4.7	1.2	NJEPH	4/21/16 LEH	5/5/16 02:18	KJH	B
Total EPH (Aliphatic+Aromatic)	7.8J	J	mg/kg	9.4	9.4	2.9	NJEPH	4/21/16 LEH	5/5/16 02:18	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	96.6		%	40 - 140			NJEPH	4/21/16 LEH	5/5/16 02:18	KJH	B
2-Fluorobiphenyl (S)	96.1		%	40 - 140			NJEPH	4/21/16 LEH	5/5/16 02:18	KJH	B
o-Terphenyl (S)	63.3		%	40 - 140			NJEPH	4/21/16 LEH	5/5/16 02:18	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.40J	J	mg/kg	1.2	1.2	0.14	NJEPH	4/21/16 LEH	5/1/16 00:14	KJH	B
C12 TO C16	1.2U	U	mg/kg	1.2	1.2	0.50	NJEPH	4/21/16 LEH	5/1/16 00:14	KJH	B
C16 TO C21	1.2U	U	mg/kg	1.2	1.2	0.49	NJEPH	4/21/16 LEH	5/1/16 00:14	KJH	B
C21 TO C40	3.0		mg/kg	1.2	1.2	0.57	NJEPH	4/21/16 LEH	5/1/16 00:14	KJH	B
Total EPH Aliphatic	3.7J	J	mg/kg	4.7	4.7	1.7	NJEPH	4/21/16 LEH	5/1/16 00:14	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	24.3	1	%	40 - 140			NJEPH	4/21/16 LEH	5/1/16 00:14	KJH	B
WET CHEMISTRY											
Moisture	14.5		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	85.5		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B


Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

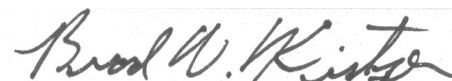
ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

Lab ID: **2137450022**
Sample ID: **PAR-79-490-SB-04-8-8.5**

Date Collected: 4/12/2016 09:40 Matrix: Solid
Date Received: 4/20/2016 08:59

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
AROMATIC PETROLEUM HC's											
C10 TO C12	0.94J	J	mg/kg	1.4	1.4	0.63	NJEPH	4/21/16 LEH	5/5/16 03:17	KJH	B
C12 TO C16	0.74J	J	mg/kg	1.4	1.4	0.25	NJEPH	4/21/16 LEH	5/5/16 03:17	KJH	B
C16 TO C21	0.46J	J	mg/kg	1.4	1.4	0.24	NJEPH	4/21/16 LEH	5/5/16 03:17	KJH	B
C21 TO C36	0.66J	J	mg/kg	1.4	1.4	0.34	NJEPH	4/21/16 LEH	5/5/16 03:17	KJH	B
Total EPH Aromatic	2.8J	J	mg/kg	5.6	5.6	1.5	NJEPH	4/21/16 LEH	5/5/16 03:17	KJH	B
Total EPH (Aliphatic+Aromatic)	5.6J	J	mg/kg	11.3	11.3	3.5	NJEPH	4/21/16 LEH	5/5/16 03:17	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Bromonaphthalene (S)	96.2		%	40 - 140			NJEPH	4/21/16 LEH	5/5/16 03:17	KJH	B
2-Fluorobiphenyl (S)	96.5		%	40 - 140			NJEPH	4/21/16 LEH	5/5/16 03:17	KJH	B
o-Terphenyl (S)	66.8		%	40 - 140			NJEPH	4/21/16 LEH	5/5/16 03:17	KJH	B
ALIPHATIC PETROLEUM HC's											
C9 TO C12	0.44J	J	mg/kg	1.4	1.4	0.17	NJEPH	4/21/16 LEH	5/1/16 01:13	KJH	B
C12 TO C16	1.4U	U	mg/kg	1.4	1.4	0.61	NJEPH	4/21/16 LEH	5/1/16 01:13	KJH	B
C16 TO C21	1.4U	U	mg/kg	1.4	1.4	0.59	NJEPH	4/21/16 LEH	5/1/16 01:13	KJH	B
C21 TO C40	1.6		mg/kg	1.4	1.4	0.69	NJEPH	4/21/16 LEH	5/1/16 01:13	KJH	B
Total EPH Aliphatic	2.9J	J	mg/kg	5.6	5.6	2.1	NJEPH	4/21/16 LEH	5/1/16 01:13	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chlorooctadecane (S)	29	1	%	40 - 140			NJEPH	4/21/16 LEH	5/1/16 01:13	KJH	B
WET CHEMISTRY											
Moisture	29.0		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B
Total Solids	71.0		%	0.1	0.1	0.01	S2540G-11		4/22/16 12:00	KAM	B


Mr. Brad W Kintzer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2137450001	1	PAR-79-490-SB-01-1.5-2	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 30.4 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450002	1	PAR-79-490-SB-01-2-2.5	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 25.4 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450003	1	PAR-79-490-SB-01-9.5-10	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 25.6 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450004	1	PAR-79-490-SB-02-2-2.5	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 20.1 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450005	1	PAR-79-490-SB-02-3.5-4	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 21.5 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450006	1	PAR-79-490-SB-02-8-8.5	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 20.4 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450007	1	PAR-79-490-SB-03-2-2.5	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 14.8 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450008	1	PAR-79-490-SB-03-6-6.5	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 27.4 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450009	1	PAR-79-490-SB-03-9.5-10	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 25.3 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450010	1	PAR-79-490-SB-04-2-2.5	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 39.9 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450011	1	PAR-79-490-SB-04-3.5-4	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 34.7 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450014	1	PAR-79-202-SB-03-9.5-10	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 34.2 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450015	1	PAR-79-202-SB-02-3-3.5	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 26.6 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450016	1	PAR-79-202-SB-02-3.5-4	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 27.2 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450017	1	PAR-79-202-SB-02-8-8.5	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 31.8 and the control limits were 40 to 140. This result was reported at a dilution of 1.				
2137450018	1	PAR-79-202-SB-01-3-3.5	NJEPH	1-Chlorooctadecane
The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 32.4 and the control limits were 40 to 140. This result was reported at a dilution of 1.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2137450 AER164|R1603708

2137450019 1 PAR-79-202-SB-01-9.5-10 NJEPH 1-Chlorooctadecane

The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 27.6 and the control limits were 40 to 140. This result was reported at a dilution of 1.

2137450021 1 PAR-79-202-SB-01-2-2.5 NJEPH 1-Chlorooctadecane

The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 24.3 and the control limits were 40 to 140. This result was reported at a dilution of 1.

2137450022 1 PAR-79-490-SB-04-8-8.5 NJEPH 1-Chlorooctadecane

The surrogate 1-Chlorooctadecane for method NJEPH was outside of control limits. The % Recovery was reported as 29 and the control limits were 40 to 140. This result was reported at a dilution of 1.

ALS Environmental Laboratory Locations Across North AmericaCanada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

QUALITY CONTROL DATA

Workorder: 2137450 AER164|R1603708

QC Batch: EXTR/43081

Analysis Method: NJEPH

QC Batch Method: SW846 3546

Associated Lab Samples: 2137450001, 2137450002, 2137450003, 2137450004, 2137450005, 2137450006, 2137450007

METHOD BLANK: 2328014

Parameter	Blank Result	Units	Reporting Limit
C9 TO C12	0.39J	mg/kg	1.0
C12 TO C16	1.0U	mg/kg	1.0
C16 TO C21	1.0U	mg/kg	1.0
C21 TO C40	1.0U	mg/kg	1.0
1-Chlorooctadecane (S)	17	%	40 - 140

LABORATORY CONTROL SAMPLE: 2328015 DUPLICATE: 2328016

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
1-Chlorooctadecane (S)	25.4*	%			25.4		40 - 140		

MATRIX SPIKE: 2328017 DUPLICATE: 2328018 ORIGINAL: 2137447005

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
1-Chlorooctadecane (S)	21.4	%				21.4*	22.6*	40 - 140		

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA

Workorder: 2137450 AER164|R1603708

QC Batch: EXTR/43082

Analysis Method: NJEPH

QC Batch Method: SW846 3546

Associated Lab Samples: 2137450001, 2137450002, 2137450003, 2137450004, 2137450005, 2137450006, 2137450007

METHOD BLANK: 2328019

Parameter	Blank Result	Units	Reporting Limit
C10 TO C12	0.65J	mg/kg	1.0
C12 TO C16	0.25J	mg/kg	1.0
C16 TO C21	0.41J	mg/kg	1.0
C21 TO C36	0.39J	mg/kg	1.0
2-Bromonaphthalene (S)	100	%	40 - 140
2-Fluorobiphenyl (S)	99.3	%	40 - 140
o-Terphenyl (S)	60.1	%	40 - 140

LABORATORY CONTROL SAMPLE: 2328020 DUPLICATE: 2328021

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
2-Bromonaphthalene (S)	89.8	%			89.8		40 - 140		
2-Fluorobiphenyl (S)	89.3	%			89.3		40 - 140		
o-Terphenyl (S)	65.6	%			65.6		40 - 140		

MATRIX SPIKE: 2328022 DUPLICATE: 2328023 ORIGINAL: 2137447005

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
2-Bromonaphthalene (S)	106	%				106	96.2	40 - 140		
2-Fluorobiphenyl (S)	108	%				108	97	40 - 140		
o-Terphenyl (S)	75.5	%				75.5	51.6	40 - 140		

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA

Workorder: 2137450 AER164|R1603708

QC Batch: EXTR/43083

Analysis Method: NJEPH

QC Batch Method: SW846 3546

Associated Lab Samples: 2137450008, 2137450009, 2137450010, 2137450011, 2137450012, 2137450013, 2137450014, 2137450015, 2137450016, 2137450017, 2137450018, 2137450019

METHOD BLANK: 2328024

Parameter	Blank Result	Units	Reporting Limit
C9 TO C12	0.45J	mg/kg	1.0
C12 TO C16	1.0U	mg/kg	1.0
C16 TO C21	1.0U	mg/kg	1.0
C21 TO C40	0.93J	mg/kg	1.0
Total EPH Aliphatic	1.7J	mg/kg	4.0
1-Chlorooctadecane (S)	29.4	%	40 - 140

LABORATORY CONTROL SAMPLE: 2328025 DUPLICATE: 2328026

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
1-Chlorooctadecane (S)	26.6*	%			26.6		40 - 140		

MATRIX SPIKE: 2328027 DUPLICATE: 2328028 ORIGINAL: 2137451003

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
1-Chlorooctadecane (S)	30.9	%				30.9*	31.2*	40 - 140		

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA

Workorder: 2137450 AER164|R1603708

QC Batch: EXTR/43084

Analysis Method: NJEPH

QC Batch Method: SW846 3546

Associated Lab Samples: 2137450008, 2137450009, 2137450010, 2137450011, 2137450012, 2137450013, 2137450014, 2137450015, 2137450016, 2137450017, 2137450018, 2137450019

METHOD BLANK: 2328029

Parameter	Blank Result	Units	Reporting Limit
C10 TO C12	0.73J	mg/kg	1.0
C12 TO C16	0.34J	mg/kg	1.0
C16 TO C21	1.0U	mg/kg	1.0
C21 TO C36	0.28J	mg/kg	1.0
Total EPH Aromatic	1.5J	mg/kg	4.0
Total EPH (Aliphatic+Aromatic)	3.2J	mg/kg	8.0
2-Bromonaphthalene (S)	101	%	40 - 140
2-Fluorobiphenyl (S)	100	%	40 - 140
o-Terphenyl (S)	81.9	%	40 - 140

LABORATORY CONTROL SAMPLE: 2328030 DUPLICATE: 2328031

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
2-Bromonaphthalene (S)	97.1	%			97.1		40 - 140		
2-Fluorobiphenyl (S)	95.2	%			95.2		40 - 140		
o-Terphenyl (S)	78.8	%			78.8		40 - 140		

MATRIX SPIKE: 2328032 DUPLICATE: 2328033 ORIGINAL: 2137451003

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
2-Bromonaphthalene (S)	92.2	%				92.2	107	40 - 140		
2-Fluorobiphenyl (S)	90.3	%				90.3	106	40 - 140		
o-Terphenyl (S)	70.4	%				70.4	81.5	40 - 140		

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA

Workorder: 2137450 AER164|R1603708

QC Batch: EXTR/43093 **Analysis Method:** NJEPH
QC Batch Method: SW846 3546
Associated Lab Samples: 2137450021, 2137450022

METHOD BLANK: 2328298

Parameter	Blank Result	Units	Reporting Limit
C9 TO C12	0.50J	mg/kg	1.0
C12 TO C16	1.0U	mg/kg	1.0
C16 TO C21	1.0U	mg/kg	1.0
C21 TO C40	0.63J	mg/kg	1.0
Total EPH Aliphatic	1.5J	mg/kg	4.0
1-Chlorooctadecane (S)	33.8	%	40 - 140

LABORATORY CONTROL SAMPLE: 2328299 DUPLICATE: 2328300

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
1-Chlorooctadecane (S)	29.3*	%			29.3		40 - 140		

MATRIX SPIKE: 2328301 DUPLICATE: 2328302 ORIGINAL: 2137451009

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
1-Chlorooctadecane (S)	29.9	%				29.9*	30.9*	40 - 140		

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA

Workorder: 2137450 AER164|R1603708

QC Batch: EXTR/43094 Analysis Method: NJEPH

QC Batch Method: SW846 3546

Associated Lab Samples: 2137450021, 2137450022

METHOD BLANK: 2328303

Parameter	Blank Result	Units	Reporting Limit
C10 TO C12	0.83J	mg/kg	1.0
C12 TO C16	0.44J	mg/kg	1.0
C16 TO C21	0.41J	mg/kg	1.0
C21 TO C36	0.53J	mg/kg	1.0
Total EPH Aromatic	2.2J	mg/kg	4.0
Total EPH (Aliphatic+Aromatic)	3.7J	mg/kg	8.0
2-Bromonaphthalene (S)	98.3	%	40 - 140
2-Fluorobiphenyl (S)	98.8	%	40 - 140
o-Terphenyl (S)	77.4	%	40 - 140

LABORATORY CONTROL SAMPLE: 2328304 DUPLICATE: 2328305

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
2-Bromonaphthalene (S)	101	%			101		40 - 140		
2-Fluorobiphenyl (S)	100	%			100		40 - 140		
o-Terphenyl (S)	73.5	%			73.5		40 - 140		

MATRIX SPIKE: 2328308 DUPLICATE: 2328309 ORIGINAL: 2137451009

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
2-Bromonaphthalene (S)	92.5	%				92.5	99.3	40 - 140		
2-Fluorobiphenyl (S)	91.2	%				91.2	98.4	40 - 140		
o-Terphenyl (S)	69.1	%				69.1	74.6	40 - 140		

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

QUALITY CONTROL DATA

Workorder: 2137450 AER164|R1603708

QC Batch: EXTR/43109 **Analysis Method:** NJEPH
QC Batch Method: SW846 3510C
Associated Lab Samples: 2137450020

METHOD BLANK: 2328872

Parameter	Blank Result	Units	Reporting Limit
Tot Unfractionated EPH C9-C40	0.029J	mg/L	0.10
1-Chlorooctadecane (S)	76.1	%	40 - 140
o-Terphenyl (S)	85.3	%	40 - 140

LABORATORY CONTROL SAMPLE: 2328873 DUPLICATE: 2328874

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	LCSD Result	LCSD % Rec	% Rec Limit	RPD	Max
Tot Unfractionated EPH C9-C40	47.7	mg/L	.4	0.19	0.18	44.4	40 - 140	7.3	50
1-Chlorooctadecane (S)	73	%			73		40 - 140		
o-Terphenyl (S)	79.8	%			79.8		40 - 140		

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA

Workorder: 2137450 AER164|R1603708

QC Batch: WETC/169088 **Analysis Method:** S2540G-11

QC Batch Method: S2540G-11

Associated Lab Samples: 2137450001, 2137450002, 2137450003, 2137450004, 2137450005, 2137450006, 2137450007, 2137450008, 2137450009, 2137450010, 2137450011, 2137450012, 2137450013, 2137450014, 2137450015, 2137450016, 2137450017, 2137450018, 2137450019, 2137450021, 2137450022

SAMPLE DUPLICATE: 2329443 ORIGINAL: 2137204001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	.0752	%	0	NC	10
Total Solids	99.9247	%	100	.08	5

SAMPLE DUPLICATE: 2329444 ORIGINAL: 2137232001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	3.861	%	3.583	7.47	10
Total Solids	96.1389	%	96.4169	.29	5

SAMPLE DUPLICATE: 2329445 ORIGINAL: 2137238004

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	12.9939	%	14.243	9.17	10
Total Solids	87.006	%	85.7569	1.45	5

SAMPLE DUPLICATE: 2329446 ORIGINAL: 2137253003

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	18.6164	%	21.9709	16.5*	10
Total Solids	81.3835	%	78.029	4.21	5

SAMPLE DUPLICATE: 2329447 ORIGINAL: 2137414004

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	2.5174	%	2.0319	21.3*	10
Total Solids	97.4825	%	97.968	.5	5

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA

Workorder: 2137450 AER164|R1603708

SAMPLE DUPLICATE: 2329448 ORIGINAL: 2137447004

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	9.3844	%	11.1638	17.3*	10
Total Solids	90.6155	%	88.8361	1.98	5

SAMPLE DUPLICATE: 2329449 ORIGINAL: 2137450005

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	15.2612	%	15.4929	1.51	10
Total Solids	84.7387	%	84.507	.27	5

SAMPLE DUPLICATE: 2329450 ORIGINAL: 2137450015

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	25.3665	%	23.5729	7.33	10
Total Solids	74.6334	%	76.427	2.37	5

SAMPLE DUPLICATE: 2329451 ORIGINAL: 2138051001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	97.826	%	97.597	.23	10
Total Solids	2.1739	%	2.4029	10*	5

SAMPLE DUPLICATE: 2329452 ORIGINAL: 2138140010

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	10.2449	%	8.5388	18.2*	10
Total Solids	89.755	%	91.4611	1.88	5

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2137450 AER164|R1603708

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2137450001	PAR-79-490-SB-01-1.5-2	SW846 3546	EXTR/43081	NJEPH	SVGC/41648
2137450002	PAR-79-490-SB-01-2-2.5	SW846 3546	EXTR/43081	NJEPH	SVGC/41648
2137450003	PAR-79-490-SB-01-9.5-10	SW846 3546	EXTR/43081	NJEPH	SVGC/41648
2137450004	PAR-79-490-SB-02-2-2.5	SW846 3546	EXTR/43081	NJEPH	SVGC/41648
2137450005	PAR-79-490-SB-02-3.5-4	SW846 3546	EXTR/43081	NJEPH	SVGC/41648
2137450006	PAR-79-490-SB-02-8-8.5	SW846 3546	EXTR/43081	NJEPH	SVGC/41648
2137450007	PAR-79-490-SB-03-2-2.5	SW846 3546	EXTR/43081	NJEPH	SVGC/41648
2137450001	PAR-79-490-SB-01-1.5-2	SW846 3546	EXTR/43082	NJEPH	SVGC/41649
2137450002	PAR-79-490-SB-01-2-2.5	SW846 3546	EXTR/43082	NJEPH	SVGC/41649
2137450003	PAR-79-490-SB-01-9.5-10	SW846 3546	EXTR/43082	NJEPH	SVGC/41649
2137450004	PAR-79-490-SB-02-2-2.5	SW846 3546	EXTR/43082	NJEPH	SVGC/41649
2137450005	PAR-79-490-SB-02-3.5-4	SW846 3546	EXTR/43082	NJEPH	SVGC/41649
2137450006	PAR-79-490-SB-02-8-8.5	SW846 3546	EXTR/43082	NJEPH	SVGC/41649
2137450007	PAR-79-490-SB-03-2-2.5	SW846 3546	EXTR/43082	NJEPH	SVGC/41649
2137450008	PAR-79-490-SB-03-6-6.5	SW846 3546	EXTR/43083	NJEPH	SVGC/41712
2137450009	PAR-79-490-SB-03-9.5-10	SW846 3546	EXTR/43083	NJEPH	SVGC/41712
2137450010	PAR-79-490-SB-04-2-2.5	SW846 3546	EXTR/43083	NJEPH	SVGC/41712
2137450011	PAR-79-490-SB-04-3.5-4	SW846 3546	EXTR/43083	NJEPH	SVGC/41712
2137450012	PAR-79-202-SB-03-2-2.5	SW846 3546	EXTR/43083	NJEPH	SVGC/41712
2137450013	PAR-79-202-SB-03-3-3.5	SW846 3546	EXTR/43083	NJEPH	SVGC/41712
2137450014	PAR-79-202-SB-03-9.5-10	SW846 3546	EXTR/43083	NJEPH	SVGC/41712
2137450015	PAR-79-202-SB-02-3-3.5	SW846 3546	EXTR/43083	NJEPH	SVGC/41712
2137450016	PAR-79-202-SB-02-3.5-4	SW846 3546	EXTR/43083	NJEPH	SVGC/41712
2137450017	PAR-79-202-SB-02-8-8.5	SW846 3546	EXTR/43083	NJEPH	SVGC/41712
2137450018	PAR-79-202-SB-01-3-3.5	SW846 3546	EXTR/43083	NJEPH	SVGC/41712
2137450019	PAR-79-202-SB-01-9.5-10	SW846 3546	EXTR/43083	NJEPH	SVGC/41712
2137450008	PAR-79-490-SB-03-6-6.5	SW846 3546	EXTR/43084	NJEPH	SVGC/41713
2137450009	PAR-79-490-SB-03-9.5-10	SW846 3546	EXTR/43084	NJEPH	SVGC/41713
2137450010	PAR-79-490-SB-04-2-2.5	SW846 3546	EXTR/43084	NJEPH	SVGC/41713

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2137450 AER164|R1603708

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2137450011	PAR-79-490-SB-04-3.5-4	SW846 3546	EXTR/43084	NJEPH	SVGC/41713
2137450012	PAR-79-202-SB-03-2-2.5	SW846 3546	EXTR/43084	NJEPH	SVGC/41713
2137450013	PAR-79-202-SB-03-3-3.5	SW846 3546	EXTR/43084	NJEPH	SVGC/41713
2137450014	PAR-79-202-SB-03-9.5-10	SW846 3546	EXTR/43084	NJEPH	SVGC/41713
2137450015	PAR-79-202-SB-02-3-3.5	SW846 3546	EXTR/43084	NJEPH	SVGC/41713
2137450016	PAR-79-202-SB-02-3.5-4	SW846 3546	EXTR/43084	NJEPH	SVGC/41713
2137450017	PAR-79-202-SB-02-8-8.5	SW846 3546	EXTR/43084	NJEPH	SVGC/41713
2137450018	PAR-79-202-SB-01-3-3.5	SW846 3546	EXTR/43084	NJEPH	SVGC/41713
2137450019	PAR-79-202-SB-01-9.5-10	SW846 3546	EXTR/43084	NJEPH	SVGC/41713
2137450021	PAR-79-202-SB-01-2-2.5	SW846 3546	EXTR/43093	NJEPH	SVGC/41714
2137450022	PAR-79-490-SB-04-8-8.5	SW846 3546	EXTR/43093	NJEPH	SVGC/41714
2137450021	PAR-79-202-SB-01-2-2.5	SW846 3546	EXTR/43094	NJEPH	SVGC/41715
2137450022	PAR-79-490-SB-04-8-8.5	SW846 3546	EXTR/43094	NJEPH	SVGC/41715
2137450020	PAR79-EB-04122016	SW846 3510C	EXTR/43109	NJEPH	SVGC/41638
2137450001	PAR-79-490-SB-01-1.5-2			S2540G-11	WETC/169088
2137450002	PAR-79-490-SB-01-2-2.5			S2540G-11	WETC/169088
2137450003	PAR-79-490-SB-01-9.5-10			S2540G-11	WETC/169088
2137450004	PAR-79-490-SB-02-2-2.5			S2540G-11	WETC/169088
2137450005	PAR-79-490-SB-02-3.5-4			S2540G-11	WETC/169088
2137450006	PAR-79-490-SB-02-8-8.5			S2540G-11	WETC/169088
2137450007	PAR-79-490-SB-03-2-2.5			S2540G-11	WETC/169088
2137450008	PAR-79-490-SB-03-6-6.5			S2540G-11	WETC/169088
2137450009	PAR-79-490-SB-03-9.5-10			S2540G-11	WETC/169088
2137450010	PAR-79-490-SB-04-2-2.5			S2540G-11	WETC/169088
2137450011	PAR-79-490-SB-04-3.5-4			S2540G-11	WETC/169088
2137450012	PAR-79-202-SB-03-2-2.5			S2540G-11	WETC/169088
2137450013	PAR-79-202-SB-03-3-3.5			S2540G-11	WETC/169088
2137450014	PAR-79-202-SB-03-9.5-10			S2540G-11	WETC/169088

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2137450 AER164|R1603708

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2137450015	PAR-79-202-SB-02-3-3.5			S2540G-11	WETC/169088
2137450016	PAR-79-202-SB-02-3.5-4			S2540G-11	WETC/169088
2137450017	PAR-79-202-SB-02-8-8.5			S2540G-11	WETC/169088
2137450018	PAR-79-202-SB-01-3-3.5			S2540G-11	WETC/169088
2137450019	PAR-79-202-SB-01-9.5-10			S2540G-11	WETC/169088
2137450021	PAR-79-202-SB-01-2-2.5			S2540G-11	WETC/169088
2137450022	PAR-79-490-SB-04-8-8.5			S2540G-11	WETC/169088

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Co



Project Number: R1603708
Project Manager: Vanessa Badman
QAP: LAB QAP

Misc Out 1
None

Lab Code	Sample ID	# of Cont.	Matrix	Sample		Lab ID	
				Date	Time		
R1603708-001	PAR-79-490-SB-01-1.5-2	1	Soil	4/12/16	1115	Middletown ALS	X
R1603708-002	PAR-79-490-SB-01-2-2.5	1	Soil	4/12/16	1120	Middletown ALS	X
R1603708-003	PAR-79-490-SB-01-9.5-10	1	Soil	4/12/16	1125	Middletown ALS	X
R1603708-004	PAR-79-490-SB-02-2-2.5	1	Soil	4/12/16	1025	Middletown ALS	X
R1603708-005	PAR-79-490-SB-02-3.5-4	1	Soil	4/12/16	1030	Middletown ALS	X
R1603708-006	PAR-79-490-SB-02-8-8.5	1	Soil	4/12/16	1035	Middletown ALS	X
R1603708-007	PAR-79-490-SB-03-2-2.5	1	Soil	4/12/16	1140	Middletown ALS	X
R1603708-008	PAR-79-490-SB-03-6-6.5	1	Soil	4/12/16	1145	Middletown ALS	X
R1603708-009	PAR-79-490-SB-03-9.5-10	1	Soil	4/12/16	1150	Middletown ALS	X
R1603708-010	PAR-79-490-SB-04-2-2.5	1	Soil	4/12/16	0930	Middletown ALS	X
R1603708-011	PAR-79-490-SB-04-3.5-4	1	Soil	4/12/16	0935	Middletown ALS	X
R1603708-012	PAR-79-490-SB-04-8-8.5	1 (Broken)	Soil	4/12/16	0940	Middletown ALS	X

AS
4/19/16

Y N Initials Cooler Temp: 2 °C
Custody Seals Present? ☒
(if present) Seals intact? ☒
Received on Ice? ☒
COC/Lbls Complete ☒
Cont in Good Cond? ☒
Correct Containers? ☒
Correct Samp Vol? ☒
Correct Preservation? ☒
Headspace/Volatiles? ☒
Therm ID: TH-352
Ship Carrier: FedEx UPS
Tracking #: 6714 7717 8628

Special Instructions/Comments

* 2 samples (R1603708-012 + -019)
Received broken JLS 4/19/16

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements

RUSH (Surcharges Apply)

PLEASE CIRCLE WORK DAYS

1 2 3 4 5

STANDARD

Requested FAX Date:

4-27-16

Requested Report Date: 4/26/16

Report Requirements

I. Results Only

II. Results + QC Summaries

III. Results + QC and Calibration Summaries

X IV. Data Validation Report with Raw Data

PQL/MDL/J Y

EDD Y

Invoice Information

PO#
58R1603708

Bill to

Relinquished By: Scott Levy 4/18/16 1500

Received By: JLS 4/19/16 0852

Airbill Number:

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Vanessa Badman

Q13750

Project Number: R1603708
Project Manager: Vanessa Badman
QAP: LAB QAP

Misc Out 1
None

AS 4/19/16
402

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Time	Lab ID	
R1603708-013	PAR-79-202-SB-03-2-2.5	1	Soil	4/12/16	1430	Middletown ALS	X
R1603708-014	PAR-79-202-SB-03-3-3.5	1	Soil	4/12/16	1435	Middletown ALS	X
R1603708-015	PAR-79-202-SB-03-9.5-10	1	Soil	4/12/16	1440	Middletown ALS	X
R1603708-016	PAR-79-202-SB-02-3-3.5	1	Soil	4/12/16	1400	Middletown ALS	X
R1603708-017	PAR-79-202-SB-02-3.5-4	1	Soil	4/12/16	1405	Middletown ALS	X
R1603708-018	PAR-79-202-SB-02-8-8.5	1	Soil	4/12/16	1410	Middletown ALS	X
R1603708-019	PAR-79-202-SB-01-2-2.5	1 (Broken)	Soil	4/12/16	1450	Middletown ALS	X
R1603708-020	PAR-79-202-SB-01-3-3.5	1	Soil	4/12/16	1455	Middletown ALS	X
R1603708-021	PAR-79-202-SB-01-9.5-10	1	Soil	4/12/16	1500	Middletown ALS	X
R1603708-022	PAR79-EB-04122016	(AIL 2) UNP	Water	4/12/16	1500	Middletown ALS	X

AS 4/19/16

Test Comments

Special Instructions/Comments H - Test is On Hold P - Test is Authorized for Prep Only	Turnaround Requirements ____ RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 ____ STANDARD Requested FAX Date: _____ Requested Report Date: <u>4-27-16</u> <i>4/26/16</i>	Report Requirements ____ I. Results Only ____ II. Results + QC Summaries ____ III. Results + QC and Calibration Summaries ☒ IV. Data Validation Report with Raw Data PQL/MDL/J <u>Y</u> EDD <u>Y</u>	Invoice Information PO# 58R1603708 Bill to

Relinquished By: _____

Received By: _____

Airbill Number: _____

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Vanessa Badman

Job Number: R1603708
Project Manager: Vanessa Badman R1603708-022
QAP: LAB QAP
Folder Comments:
 DoD reporting ERPTOOLS LOD

NJEPH

Special Instructions/Comments	Turnaround Requirements	Report Requirements	Invoice Information
H - Test is On Hold P - Test is Authorized for Prep Only	_____ RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 _____ STANDARD Requested FAX Date: _____ Requested Report Date: <u>4-27-16</u>	_____ I. Results Only _____ II. Results + QC Summaries _____ III. Results + QC and Calibration Summaries ☒ IV. Data Validation Report with Raw Data PQL/MDL/J <u>Y</u> EDD <u>Y</u>	PO# 58R1603708 Bill to

Relinquished By: _____ Received By: _____ Airbill Number: _____

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Vanessa Badman

Project Number: R1603708
Project Manager: Vanessa Badman
QAP: LAB QAP

R1603708



Ship To: Middletown ALS
ALS Laboratory Group
34 Dogwood Lane
Middletown, PA 17057

PC _____ Date _____
SMO _____ Date _____

Instructions:

Ice _____
Dry Ice _____
No Ice _____

Shipping:

Overnight _____
2nd Day _____
Ground _____

Bill to Client Account _____

Comments:

ALS Group USA, Corp.
www.alsglobal.com
An ALS Limited Company



June 09, 2016

Service Request No:R1603707

Mr. Cory Mahony
Parsons Engineering Science
100 High St. 4th Floor
Boston, MA 02110

Laboratory Results for: FTMM Baseline

Dear Mr.Mahony,

Enclosed are the results of the sample(s) submitted to our laboratory April 15, 2016
For your reference, these analyses have been assigned our service request number **R1603707**.

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.

Please contact me if you have any questions. My extension is 7478. You may also contact me via email at Vanessa.Badman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Vanessa Badman
Customer Service
Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | FAX +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental

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.	+	Correlation coefficient for MSA is <0.995.
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/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
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.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	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 Certifications¹

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

¹ 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 <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

Client: Parsons Engineering Science
Project: FTMM Baseline/748810-03000

Service Request:R1603707

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1603707-001	PAR-79-A75-SB-03-0.5-1	4/13/2016	1310
R1603707-002	PAR-79-A75-SB-03-3-3.5	4/13/2016	1315
R1603707-003	PAR-79-A75-SB-03-9.5-10	4/13/2016	1320
R1603707-004	PAR-79-A75-SB-01-0.5-1	4/13/2016	1340
R1603707-005	PAR-79-A75-SB-101-2-2.5	4/13/2016	1200
R1603707-006	PAR-79-A75-SB-01-2-2.5	4/13/2016	1345
R1603707-007	PAR-79-A75-SB-01-9.5-10	4/13/2016	1350
R1603707-008	PAR-79-A75-SB-02-0.5-1	4/13/2016	1430
R1603707-009	PAR-79-A75-SB-02-3.5-4	4/13/2016	1435
R1603707-010	PAR79-EB-04132016	4/13/2016	1600

This is a preliminary Tier II report in which your Tier III or Tier IV will soon follow. The report has been reviewed for completeness only. The Case Narrative and Raw Data review will be completed upon the assembling of the final data package and therefore could contain some differences between the preliminary report and final data package.

Preliminary Tier II reports containing Metals data could have a slight difference in the final Tier III or Tier IV results due to rounding rules used in the reporting software.

If you have any questions regarding this, please contact your Customer Service Representative.



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 Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

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

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Parsons Engineering Science
Project: FTMM Baseline/748810-03000
Sample Matrix: Water

Service Request: R1603707
Date Collected: 04/13/16 16:00
Date Received: 04/18/16 09:17

Sample Name: PAR79-EB-04132016
Lab Code: R1603707-010

Units: ug/L
Basis: NA

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Benz(a)anthracene	0.19 U	0.19	0.050	1	04/20/16 18:15	4/19/16	
Benzo(a)pyrene	0.19 U	0.19	0.050	1	04/20/16 18:15	4/19/16	
Benzo(b)fluoranthene	0.19 U	0.19	0.050	1	04/20/16 18:15	4/19/16	
Benzo(k)fluoranthene	0.19 U	0.19	0.050	1	04/20/16 18:15	4/19/16	
Dibenz(a,h)anthracene	0.19 U	0.19	0.050	1	04/20/16 18:15	4/19/16	
Indeno(1,2,3-cd)pyrene	0.19 U	0.19	0.050	1	04/20/16 18:15	4/19/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	71	44 - 119	04/20/16 18:15	
Nitrobenzene-d5	73	44 - 120	04/20/16 18:15	
Terphenyl-d14	99	50 - 134	04/20/16 18:15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Parsons Engineering Science
Project: FTMM Baseline/748810-03000
Sample Matrix: Water

Service Request: R1603707
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1604066-01

Units: ug/L
Basis: NA

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Benz(a)anthracene	0.20 U	0.20	0.050	1	04/20/16 09:24	4/19/16	
Benzo(a)pyrene	0.20 U	0.20	0.050	1	04/20/16 09:24	4/19/16	
Benzo(b)fluoranthene	0.20 U	0.20	0.050	1	04/20/16 09:24	4/19/16	
Benzo(k)fluoranthene	0.20 U	0.20	0.050	1	04/20/16 09:24	4/19/16	
Dibenz(a,h)anthracene	0.20 U	0.20	0.050	1	04/20/16 09:24	4/19/16	
Indeno(1,2,3-cd)pyrene	0.20 U	0.20	0.050	1	04/20/16 09:24	4/19/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	71	44 - 119	04/20/16 09:24	
Nitrobenzene-d5	67	44 - 120	04/20/16 09:24	
Terphenyl-d14	91	50 - 134	04/20/16 09:24	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Baseline/748810-03000
Sample Matrix: Water

Service Request: R1603707
Date Analyzed: 04/20/16

Duplicate Lab Control Sample Summary
Low Level Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ1604066-02					RQ1604066-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benz(a)anthracene	8270D	4.36	6.00	73	4.95	6.00	82	58-125	13	20
Benzo(a)pyrene	8270D	4.50	6.00	75	5.06	6.00	84	54-128	12	20
Benzo(b)fluoranthene	8270D	4.46	6.00	74	4.91	6.00	82	53-131	10	20
Benzo(k)fluoranthene	8270D	4.52	6.00	75	5.21	6.00	87	57-129	14	20
Dibenz(a,h)anthracene	8270D	4.95	6.00	82	5.03	6.00	84	51-134	2	20
Indeno(1,2,3-cd)pyrene	8270D	4.88	6.00	81	4.83	6.00	80	52-134	<1	20

June 9, 2016

Ms. Carla Rodman
Parsons
301 Plainfield Rd
Suite 350
Syracuse, NY 13212

Certificate of Analysis

Project Name:	Ft. Monmouth GW Sampling	Workorder:	2146758
Purchase Order:		Workorder ID:	PQF011 Ft. Monmouth GW Smpling

Dear Ms. Rodman:

Enclosed are the analytical results for samples received by the laboratory on Thursday, May 26, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Christina Grill , Ms. Maryanne Kosciwicz , Mr. Cory Mahony ,
Ms. Meghan Emmert

*This page is included as part of the Analytical Report and
must be retained as a permanent record thereof.*


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2146758001	M16MW02-9.5	Water	5/25/2016 13:20	5/26/2016 09:14	Collected by Client
2146758002	M16MW02-14.5	Water	5/25/2016 13:55	5/26/2016 09:14	Collected by Client
2146758003	202MW01-14.5	Water	5/25/2016 12:50	5/26/2016 09:14	Collected by Client
2146758004	202MW01-9.5	Water	5/25/2016 11:55	5/26/2016 09:14	Collected by Client
2146758005	490MW01-9.5	Water	5/25/2016 14:05	5/26/2016 09:14	Collected by Client
2146758006	490MW01-14.5	Water	5/25/2016 14:50	5/26/2016 09:14	Collected by Client
2146758007	490MW01-19.5	Water	5/25/2016 15:45	5/26/2016 09:14	Collected by Client

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758001**
Sample ID: **M16MW02-9.5**

Date Collected: 5/25/2016 13:20 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 14:31	TMP	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		6/2/16 14:31	TMP	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 14:31	TMP	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		6/2/16 14:31	TMP	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/2/16 14:31	TMP	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758001**
Sample ID: **M16MW02-9.5**

Date Collected: 5/25/2016 13:20 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Hexachlorobutadiene	0.75U	U	ug/L	1.0	0.75	0.43	SW846 8260C		6/2/16 14:31	TMP	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 14:31	TMP	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Methyl t-Butyl Ether	0.51J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 14:31	TMP	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/2/16 14:31	TMP	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:31	TMP	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		6/2/16 14:31	TMP	D
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	95.8		%	81 - 118			SW846 8260C		6/2/16 14:31	TMP	D
4-Bromofluorobenzene (S)	106		%	85 - 114			SW846 8260C		6/2/16 14:31	TMP	D
Dibromofluoromethane (S)	88.8		%	80 - 119			SW846 8260C		6/2/16 14:31	TMP	D
Toluene-d8 (S)	105		%	89 - 112			SW846 8260C		6/2/16 14:31	TMP	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected . Lib Search VOC 6/2/16 14:31 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758001**
Sample ID: **M16MW02-9.5**

Date Collected: 5/25/2016 13:20 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	1.1U	U	ug/L	2.1	1.1	0.16	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Acenaphthylene	1.1U	U	ug/L	2.1	1.1	0.20	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Anthracene	1.1U	U	ug/L	2.1	1.1	0.16	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Benzidine	31.6U	U	ug/L	31.6	31.6	3.3	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Benzo(a)anthracene	1.1U	U	ug/L	2.1	1.1	0.14	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Benzo(a)pyrene	1.1U	U	ug/L	2.1	1.1	0.23	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Benzo(b)fluoranthene	1.1U	U	ug/L	2.1	1.1	0.12	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Benzo(g,h,i)perylene	1.1U	U	ug/L	2.1	1.1	0.23	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Benzo(k)fluoranthene	1.1U	U	ug/L	2.1	1.1	0.20	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Benzyl Alcohol	2.1U	U	ug/L	8.4	2.1	0.24	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
4-Bromophenyl-phenylether	1.1U	U	ug/L	8.4	1.1	0.18	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Butylbenzylphthalate	1.1U	U	ug/L	8.4	1.1	0.12	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Carbazole	1.1U	U	ug/L	8.4	1.1	0.13	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
4-Chloro-3-methylphenol	1.1U	U	ug/L	8.4	1.1	0.20	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
4-Chloroaniline	1.1U	U	ug/L	8.4	1.1	0.22	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
bis(2-Chloroethoxy)methane	1.1U	U	ug/L	8.4	1.1	0.22	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
bis(2-Chloroethyl)ether	1.1U	U	ug/L	8.4	1.1	0.18	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
bis(2-Chloroisopropyl)ether	1.1U	U	ug/L	8.4	1.1	0.29	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2-Chloronaphthalene	1.1U	U	ug/L	8.4	1.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2-Chlorophenol	2.1U	U	ug/L	8.4	2.1	0.35	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
4-Chlorophenyl-phenylether	1.1U	U	ug/L	8.4	1.1	0.15	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Chrysene	1.1U	U	ug/L	2.1	1.1	0.13	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
mp-Cresol	1.1U	U	ug/L	8.4	1.1	0.16	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
o-Cresol	1.1U	U	ug/L	8.4	1.1	0.26	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Di-n-Butylphthalate	1.1U	U	ug/L	8.4	1.1	0.15	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Di-n-Octylphthalate	1.1U	U	ug/L	8.4	1.1	0.11	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Dibenzo(a,h)anthracene	1.1U	U	ug/L	2.1	1.1	0.22	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Dibenzofuran	1.1U	U	ug/L	8.4	1.1	0.12	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
1,2-Dichlorobenzene	1.1U	U	ug/L	8.4	1.1	0.21	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
1,3-Dichlorobenzene	1.1U	U	ug/L	8.4	1.1	0.18	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
1,4-Dichlorobenzene	1.1U	U	ug/L	8.4	1.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
3,3-Dichlorobenzidine	3.2U	U	ug/L	16.8	3.2	0.51	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2,4-Dichlorophenol	1.1U	U	ug/L	8.4	1.1	0.34	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Diethylphthalate	1.1U	U	ug/L	8.4	1.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2,4-Dimethylphenol	5.3U	U	ug/L	8.4	5.3	0.22	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Dimethylphthalate	1.1U	U	ug/L	8.4	1.1	0.15	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2,4-Dinitrophenol	8.4U	U	ug/L	16.8	8.4	1.9	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2,4-Dinitrotoluene	1.1U	U	ug/L	8.4	1.1	0.13	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758001**
Sample ID: **M16MW02-9.5**

Date Collected: 5/25/2016 13:20 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2,6-Dinitrotoluene	1.1U	U	ug/L	8.4	1.1	0.22	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
1,2-Diphenylhydrazine	1.1U	U	ug/L	8.4	1.1	0.27	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
bis(2-Ethylhexyl)phthalate	1.1U	U	ug/L	8.4	1.1	0.23	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Fluoranthene	1.1U	U	ug/L	2.1	1.1	0.18	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Fluorene	1.1U	U	ug/L	2.1	1.1	0.21	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Hexachlorobenzene	1.1U	U	ug/L	8.4	1.1	0.24	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Hexachlorobutadiene	1.1U	U	ug/L	8.4	1.1	0.20	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Hexachlorocyclopentadiene	2.1U	U	ug/L	8.4	2.1	0.18	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Hexachloroethane	1.1U	U	ug/L	8.4	1.1	0.32	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Indeno(1,2,3-cd)pyrene	1.1U	U	ug/L	2.1	1.1	0.11	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Isophorone	1.1U	U	ug/L	8.4	1.1	0.16	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2-Methyl-4,6-dinitrophenol	5.3U	U	ug/L	8.4	5.3	0.35	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2-Methylnaphthalene	1.1U	U	ug/L	2.1	1.1	0.17	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Naphthalene	1.1U	U	ug/L	2.1	1.1	0.13	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2-Nitroaniline	1.1U	U	ug/L	8.4	1.1	0.21	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
3-Nitroaniline	2.1U	U	ug/L	8.4	2.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
4-Nitroaniline	1.1U	U	ug/L	8.4	1.1	0.43	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Nitrobenzene	2.1U	U	ug/L	8.4	2.1	0.29	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2-Nitrophenol	2.1U	U	ug/L	8.4	2.1	0.47	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
4-Nitrophenol	5.3U	U	ug/L	8.4	5.3	1.1	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
N-Nitrosodimethylamine	2.1U	U	ug/L	8.4	2.1	0.67	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
N-Nitroso-di-n-propylamine	1.1U	U	ug/L	8.4	1.1	0.25	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
N-Nitrosodiphenylamine	2.1U	U	ug/L	8.4	2.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Pentachlorophenol	8.4U	U	ug/L	16.8	8.4	1.1	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Phenanthrene	1.1U	U	ug/L	2.1	1.1	0.14	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Phenol	1.1U	U	ug/L	8.4	1.1	0.24	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Pyrene	1.1U	U	ug/L	2.1	1.1	0.17	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
1,2,4-Trichlorobenzene	1.1U	U	ug/L	8.4	1.1	0.14	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2,4,5-Trichlorophenol	3.2U	U	ug/L	8.4	3.2	0.58	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2,4,6-Trichlorophenol	1.1U	U	ug/L	8.4	1.1	0.60	SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	85.4		%	43 - 140			SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2-Fluorobiphenyl (S)	72.8		%	44 - 119			SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
2-Fluorophenol (S)	52.1		%	19 - 119			SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Nitrobenzene-d5 (S)	75.2		%	44 - 120			SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Phenol-d5 (S)	33.6		%	13 - 49			SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B
Terphenyl-d14 (S)	97		%	50 - 134			SW846 8270D	5/31/16 LEH	6/1/16 15:14	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758001**
Sample ID: **M16MW02-9.5**

Date Collected: 5/25/2016 13:20 Matrix: Water
Date Received: 5/26/2016 09:14

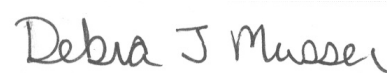
Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILE SIM											
Acenaphthene	0.042U	U	ug/L	0.053	0.042	0.012	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Acenaphthylene	0.042U	U	ug/L	0.053	0.042	0.012	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Anthracene	0.042U	U	ug/L	0.053	0.042	0.018	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Benzo(a)anthracene	0.042U	U	ug/L	0.053	0.042	0.018	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Benzo(a)pyrene	0.042U	U	ug/L	0.053	0.042	0.021	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Benzo(b)fluoranthene	0.042U	U	ug/L	0.053	0.042	0.021	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Benzo(g,h,i)perylene	0.042U	U	ug/L	0.053	0.042	0.040	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Benzo(k)fluoranthene	0.042U	U	ug/L	0.053	0.042	0.026	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Chrysene	0.042U	U	ug/L	0.053	0.042	0.018	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Dibenzo(a,h)anthracene	0.042U	U	ug/L	0.053	0.042	0.024	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
2,4-Dinitrotoluene	0.042U	U	ug/L	0.053	0.042	0.022	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
2,6-Dinitrotoluene	0.042U	U	ug/L	0.053	0.042	0.033	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Fluoranthene	0.042U	U	ug/L	0.053	0.042	0.019	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Fluorene	0.042U	U	ug/L	0.053	0.042	0.016	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Indeno(1,2,3-cd)pyrene	0.053U	U	ug/L	0.053	0.053	0.043	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Naphthalene	0.042U	U	ug/L	0.053	0.042	0.039	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Phenanthrene	0.042U	U	ug/L	0.053	0.042	0.021	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Pyrene	0.042U	U	ug/L	0.053	0.042	0.016	8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	76.2		%	29 - 112			8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B
Fluoranthene-d10 (S)	93.2		%	45 - 130			8270 SIM	5/31/16 LEH	6/2/16 16:01	CGS	B

LIBRARY SEARCH - SEMI-VOLATILE

No TIC's Detected

Lib Search SV

6/1/16 15:14 DRS B



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758002** Date Collected: 5/25/2016 13:55 Matrix: Water
Sample ID: **M16MW02-14.5** Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 14:48	TMP	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		6/2/16 14:48	TMP	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Bromomethane	0.40J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 14:48	TMP	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		6/2/16 14:48	TMP	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Chloromethane	0.35J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/2/16 14:48	TMP	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,1-Dichloroethene	0.75U	U1	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758002**
Sample ID: **M16MW02-14.5**

Date Collected: 5/25/2016 13:55 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Hexachlorobutadiene	0.75U	U	ug/L	1.0	0.75	0.43	SW846 8260C		6/2/16 14:48	TMP	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 14:48	TMP	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Methyl t-Butyl Ether	0.55J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 14:48	TMP	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/2/16 14:48	TMP	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 14:48	TMP	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		6/2/16 14:48	TMP	D
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	96		%	81 - 118			SW846 8260C		6/2/16 14:48	TMP	D
4-Bromofluorobenzene (S)	101		%	85 - 114			SW846 8260C		6/2/16 14:48	TMP	D
Dibromofluoromethane (S)	87.1		%	80 - 119			SW846 8260C		6/2/16 14:48	TMP	D
Toluene-d8 (S)	104		%	89 - 112			SW846 8260C		6/2/16 14:48	TMP	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected . Lib Search VOC 6/2/16 14:48 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758002**
Sample ID: **M16MW02-14.5**

Date Collected: 5/25/2016 13:55 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	1.1U	U	ug/L	2.2	1.1	0.16	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Acenaphthylene	1.1U	U	ug/L	2.2	1.1	0.21	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Anthracene	1.1U	U	ug/L	2.2	1.1	0.16	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Benzidine	33.0U	U	ug/L	33.0	33.0	3.4	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Benzo(a)anthracene	1.1U	U	ug/L	2.2	1.1	0.14	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Benzo(a)pyrene	1.1U	U	ug/L	2.2	1.1	0.24	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Benzo(b)fluoranthene	1.1U	U	ug/L	2.2	1.1	0.12	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Benzo(g,h,i)perylene	1.1U	U	ug/L	2.2	1.1	0.24	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Benzo(k)fluoranthene	1.1U	U	ug/L	2.2	1.1	0.21	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Benzyl Alcohol	2.2U	U	ug/L	8.8	2.2	0.25	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
4-Bromophenyl-phenylether	1.1U	U	ug/L	8.8	1.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Butylbenzylphthalate	1.1U	U	ug/L	8.8	1.1	0.12	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Carbazole	1.1U	U	ug/L	8.8	1.1	0.13	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
4-Chloro-3-methylphenol	1.1U	U	ug/L	8.8	1.1	0.21	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
4-Chloroaniline	1.1U	U	ug/L	8.8	1.1	0.23	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
bis(2-Chloroethoxy)methane	1.1U	U	ug/L	8.8	1.1	0.23	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
bis(2-Chloroethyl)ether	1.1U	U	ug/L	8.8	1.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
bis(2-Chloroisopropyl)ether	1.1U	U	ug/L	8.8	1.1	0.31	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2-Chloronaphthalene	1.1U	U	ug/L	8.8	1.1	0.20	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2-Chlorophenol	2.2U	U	ug/L	8.8	2.2	0.36	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
4-Chlorophenyl-phenylether	1.1U	U	ug/L	8.8	1.1	0.15	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Chrysene	1.1U	U	ug/L	2.2	1.1	0.13	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
mp-Cresol	1.1U	U	ug/L	8.8	1.1	0.16	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
o-Cresol	1.1U	U	ug/L	8.8	1.1	0.27	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Di-n-Butylphthalate	1.1U	U	ug/L	8.8	1.1	0.15	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Di-n-Octylphthalate	1.1U	U	ug/L	8.8	1.1	0.11	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Dibenzo(a,h)anthracene	1.1U	U	ug/L	2.2	1.1	0.23	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Dibenzofuran	1.1U	U	ug/L	8.8	1.1	0.12	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
1,2-Dichlorobenzene	1.1U	U	ug/L	8.8	1.1	0.22	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
1,3-Dichlorobenzene	1.1U	U	ug/L	8.8	1.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
1,4-Dichlorobenzene	1.1U	U	ug/L	8.8	1.1	0.20	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
3,3-Dichlorobenzidine	3.3U	U	ug/L	17.6	3.3	0.53	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2,4-Dichlorophenol	1.1U	U	ug/L	8.8	1.1	0.35	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Diethylphthalate	1.1U	U	ug/L	8.8	1.1	0.20	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2,4-Dimethylphenol	5.5U	U	ug/L	8.8	5.5	0.23	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Dimethylphthalate	1.1U	U	ug/L	8.8	1.1	0.15	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2,4-Dinitrophenol	8.8U	U	ug/L	17.6	8.8	2.0	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2,4-Dinitrotoluene	1.1U	U	ug/L	8.8	1.1	0.13	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758002**
Sample ID: **M16MW02-14.5**

Date Collected: 5/25/2016 13:55 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2,6-Dinitrotoluene	1.1U	U	ug/L	8.8	1.1	0.23	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
1,2-Diphenylhydrazine	1.1U	U	ug/L	8.8	1.1	0.29	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
bis(2-Ethylhexyl)phthalate	1.1U	U	ug/L	8.8	1.1	0.24	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Fluoranthene	1.1U	U	ug/L	2.2	1.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Fluorene	1.1U	U	ug/L	2.2	1.1	0.22	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Hexachlorobenzene	1.1U	U	ug/L	8.8	1.1	0.25	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Hexachlorobutadiene	1.1U	U	ug/L	8.8	1.1	0.21	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Hexachlorocyclopentadiene	2.2U	U	ug/L	8.8	2.2	0.19	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Hexachloroethane	1.1U	U	ug/L	8.8	1.1	0.33	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Indeno(1,2,3-cd)pyrene	1.1U	U	ug/L	2.2	1.1	0.11	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Isophorone	1.1U	U	ug/L	8.8	1.1	0.16	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2-Methyl-4,6-dinitrophenol	5.5U	U	ug/L	8.8	5.5	0.36	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2-Methylnaphthalene	1.1U	U	ug/L	2.2	1.1	0.18	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Naphthalene	1.1U	U	ug/L	2.2	1.1	0.13	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2-Nitroaniline	1.1U	U	ug/L	8.8	1.1	0.22	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
3-Nitroaniline	2.2U	U	ug/L	8.8	2.2	0.20	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
4-Nitroaniline	1.1U	U	ug/L	8.8	1.1	0.45	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Nitrobenzene	2.2U	U	ug/L	8.8	2.2	0.31	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2-Nitrophenol	2.2U	U	ug/L	8.8	2.2	0.49	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
4-Nitrophenol	5.5U	U	ug/L	8.8	5.5	1.2	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
N-Nitrosodimethylamine	2.2U	U	ug/L	8.8	2.2	0.70	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
N-Nitroso-di-n-propylamine	1.1U	U	ug/L	8.8	1.1	0.26	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
N-Nitrosodiphenylamine	2.2U	U	ug/L	8.8	2.2	0.20	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Pentachlorophenol	8.8U	U	ug/L	17.6	8.8	1.2	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Phenanthrene	1.1U	U	ug/L	2.2	1.1	0.14	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Phenol	1.1U	U	ug/L	8.8	1.1	0.25	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Pyrene	1.1U	U	ug/L	2.2	1.1	0.18	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
1,2,4-Trichlorobenzene	1.1U	U	ug/L	8.8	1.1	0.14	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2,4,5-Trichlorophenol	3.3U	U	ug/L	8.8	3.3	0.60	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2,4,6-Trichlorophenol	1.1U	U	ug/L	8.8	1.1	0.63	SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	87.2		%	43 - 140			SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2-Fluorobiphenyl (S)	78.5		%	44 - 119			SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
2-Fluorophenol (S)	56.4		%	19 - 119			SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Nitrobenzene-d5 (S)	82.3		%	44 - 120			SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Phenol-d5 (S)	34.9		%	13 - 49			SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B
Terphenyl-d14 (S)	93.5		%	50 - 134			SW846 8270D	5/31/16 LEH	6/1/16 15:38	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758002**
Sample ID: **M16MW02-14.5**

Date Collected: 5/25/2016 13:55 Matrix: Water
Date Received: 5/26/2016 09:14

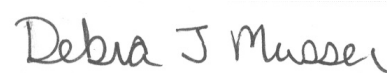
Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILE SIM											
Acenaphthene	0.012J	J	ug/L	0.055	0.044	0.012	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Acenaphthylene	0.044U	U	ug/L	0.055	0.044	0.012	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Anthracene	0.044U	U	ug/L	0.055	0.044	0.019	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Benzo(a)anthracene	0.040J	J	ug/L	0.055	0.044	0.019	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Benzo(a)pyrene	0.044U	U	ug/L	0.055	0.044	0.022	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Benzo(b)fluoranthene	0.041J	J	ug/L	0.055	0.044	0.022	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Benzo(g,h,i)perylene	0.044U	U	ug/L	0.055	0.044	0.042	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Benzo(k)fluoranthene	0.044U	U	ug/L	0.055	0.044	0.027	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Chrysene	0.056		ug/L	0.055	0.044	0.019	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Dibenzo(a,h)anthracene	0.044U	U	ug/L	0.055	0.044	0.025	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
2,4-Dinitrotoluene	0.044U	U	ug/L	0.055	0.044	0.023	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
2,6-Dinitrotoluene	0.044U	U	ug/L	0.055	0.044	0.034	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Fluoranthene	0.10		ug/L	0.055	0.044	0.020	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Fluorene	0.030J	J	ug/L	0.055	0.044	0.016	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Indeno(1,2,3-cd)pyrene	0.055U	U	ug/L	0.055	0.055	0.045	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Naphthalene	0.051J	J	ug/L	0.055	0.044	0.041	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Phenanthrene	0.091		ug/L	0.055	0.044	0.022	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Pyrene	0.069		ug/L	0.055	0.044	0.016	8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	85.2		%	29 - 112			8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B
Fluoranthene-d10 (S)	94.9		%	45 - 130			8270 SIM	5/31/16 LEH	6/2/16 16:27	CGS	B

LIBRARY SEARCH - SEMI-VOLATILE

No TIC's Detected

Lib Search SV

6/1/16 15:38 DRS B



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758003** Date Collected: 5/25/2016 12:50 Matrix: Water
Sample ID: **202MW01-14.5** Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 15:05	TMP	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		6/2/16 15:05	TMP	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 15:05	TMP	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		6/2/16 15:05	TMP	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Chloromethane	0.40J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/2/16 15:05	TMP	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758003**
Sample ID: **202MW01-14.5**

Date Collected: 5/25/2016 12:50 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Hexachlorobutadiene	0.75U	U	ug/L	1.0	0.75	0.43	SW846 8260C		6/2/16 15:05	TMP	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 15:05	TMP	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 15:05	TMP	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/2/16 15:05	TMP	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:05	TMP	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		6/2/16 15:05	TMP	D
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	93		%	81 - 118			SW846 8260C		6/2/16 15:05	TMP	D
4-Bromofluorobenzene (S)	103		%	85 - 114			SW846 8260C		6/2/16 15:05	TMP	D
Dibromofluoromethane (S)	85.3		%	80 - 119			SW846 8260C		6/2/16 15:05	TMP	D
Toluene-d8 (S)	103		%	89 - 112			SW846 8260C		6/2/16 15:05	TMP	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected . Lib Search VOC 6/2/16 15:05 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758003**
Sample ID: **202MW01-14.5**

Date Collected: 5/25/2016 12:50 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	0.93U	U	ug/L	1.9	0.93	0.14	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Acenaphthylene	0.93U	U	ug/L	1.9	0.93	0.18	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Anthracene	0.93U	U	ug/L	1.9	0.93	0.14	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Benzidine	27.8U	U	ug/L	27.8	27.8	2.9	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Benzo(a)anthracene	0.93U	U	ug/L	1.9	0.93	0.12	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Benzo(a)pyrene	0.93U	U	ug/L	1.9	0.93	0.20	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Benzo(b)fluoranthene	0.93U	U	ug/L	1.9	0.93	0.10	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Benzo(g,h,i)perylene	0.93U	U	ug/L	1.9	0.93	0.20	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Benzo(k)fluoranthene	0.93U	U	ug/L	1.9	0.93	0.18	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Benzyl Alcohol	1.9U	U	ug/L	7.4	1.9	0.21	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
4-Bromophenyl-phenylether	0.93U	U	ug/L	7.4	0.93	0.16	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Butylbenzylphthalate	0.93U	U	ug/L	7.4	0.93	0.10	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Carbazole	0.93U	U	ug/L	7.4	0.93	0.11	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
4-Chloro-3-methylphenol	0.93U	U	ug/L	7.4	0.93	0.18	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
4-Chloroaniline	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
bis(2-Chloroethoxy)methane	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
bis(2-Chloroethyl)ether	0.93U	U	ug/L	7.4	0.93	0.16	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
bis(2-Chloroisopropyl)ether	0.93U	U	ug/L	7.4	0.93	0.26	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2-Chloronaphthalene	0.93U	U	ug/L	7.4	0.93	0.17	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2-Chlorophenol	1.9U	U	ug/L	7.4	1.9	0.31	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
4-Chlorophenyl-phenylether	0.93U	U	ug/L	7.4	0.93	0.13	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Chrysene	0.93U	U	ug/L	1.9	0.93	0.11	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
mp-Cresol	0.93U	U	ug/L	7.4	0.93	0.14	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
o-Cresol	0.93U	U	ug/L	7.4	0.93	0.23	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Di-n-Butylphthalate	0.93U	U	ug/L	7.4	0.93	0.13	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Di-n-Octylphthalate	0.93U	U	ug/L	7.4	0.93	0.093	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Dibenzo(a,h)anthracene	0.93U	U	ug/L	1.9	0.93	0.19	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Dibenzofuran	0.93U	U	ug/L	7.4	0.93	0.10	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
1,2-Dichlorobenzene	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
1,3-Dichlorobenzene	0.93U	U	ug/L	7.4	0.93	0.16	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
1,4-Dichlorobenzene	0.93U	U	ug/L	7.4	0.93	0.17	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
3,3-Dichlorobenzidine	2.8U	U	ug/L	14.8	2.8	0.44	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2,4-Dichlorophenol	0.93U	U	ug/L	7.4	0.93	0.30	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Diethylphthalate	0.93U	U	ug/L	7.4	0.93	0.17	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2,4-Dimethylphenol	4.6U	U	ug/L	7.4	4.6	0.19	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Dimethylphthalate	0.93U	U	ug/L	7.4	0.93	0.13	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2,4-Dinitrophenol	7.4U	U	ug/L	14.8	7.4	1.7	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2,4-Dinitrotoluene	0.93U	U	ug/L	7.4	0.93	0.11	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758003**
Sample ID: **202MW01-14.5**

Date Collected: 5/25/2016 12:50 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2,6-Dinitrotoluene	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
1,2-Diphenylhydrazine	0.93U	U	ug/L	7.4	0.93	0.24	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
bis(2-Ethylhexyl)phthalate	0.93U	U	ug/L	7.4	0.93	0.20	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Fluoranthene	0.93U	U	ug/L	1.9	0.93	0.16	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Fluorene	0.93U	U	ug/L	1.9	0.93	0.19	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Hexachlorobenzene	0.93U	U	ug/L	7.4	0.93	0.21	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Hexachlorobutadiene	0.93U	U	ug/L	7.4	0.93	0.18	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Hexachlorocyclopentadiene	1.9U	U	ug/L	7.4	1.9	0.16	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Hexachloroethane	0.93U	U	ug/L	7.4	0.93	0.28	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Indeno(1,2,3-cd)pyrene	0.93U	U	ug/L	1.9	0.93	0.093	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Isophorone	0.93U	U	ug/L	7.4	0.93	0.14	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2-Methyl-4,6-dinitrophenol	4.6U	U	ug/L	7.4	4.6	0.31	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2-Methylnaphthalene	0.93U	U	ug/L	1.9	0.93	0.15	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Naphthalene	0.93U	U	ug/L	1.9	0.93	0.11	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2-Nitroaniline	0.93U	U	ug/L	7.4	0.93	0.19	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
3-Nitroaniline	1.9U	U	ug/L	7.4	1.9	0.17	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
4-Nitroaniline	0.93U	U	ug/L	7.4	0.93	0.38	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Nitrobenzene	1.9U	U	ug/L	7.4	1.9	0.26	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2-Nitrophenol	1.9U	U	ug/L	7.4	1.9	0.42	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
4-Nitrophenol	4.6U	U	ug/L	7.4	4.6	0.97	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
N-Nitrosodimethylamine	1.9U	U	ug/L	7.4	1.9	0.59	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
N-Nitroso-di-n-propylamine	0.93U	U	ug/L	7.4	0.93	0.22	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
N-Nitrosodiphenylamine	1.9U	U	ug/L	7.4	1.9	0.17	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Pentachlorophenol	7.4U	U	ug/L	14.8	7.4	0.99	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Phenanthrene	0.93U	U	ug/L	1.9	0.93	0.12	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Phenol	0.93U	U	ug/L	7.4	0.93	0.21	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Pyrene	0.93U	U	ug/L	1.9	0.93	0.15	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
1,2,4-Trichlorobenzene	0.93U	U	ug/L	7.4	0.93	0.12	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2,4,5-Trichlorophenol	2.8U	U	ug/L	7.4	2.8	0.51	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2,4,6-Trichlorophenol	0.93U	U	ug/L	7.4	0.93	0.53	SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	88.9		%	43 - 140			SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2-Fluorobiphenyl (S)	77.6		%	44 - 119			SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
2-Fluorophenol (S)	54.6		%	19 - 119			SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Nitrobenzene-d5 (S)	82.7		%	44 - 120			SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Phenol-d5 (S)	33.4		%	13 - 49			SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B
Terphenyl-d14 (S)	93.3		%	50 - 134			SW846 8270D	5/31/16 LEH	6/1/16 14:49	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758003**
Sample ID: **202MW01-14.5**

Date Collected: 5/25/2016 12:50 Matrix: Water
Date Received: 5/26/2016 09:14

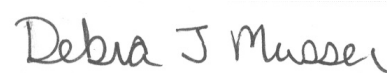
Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILE SIM											
Acenaphthene	0.037U	U	ug/L	0.046	0.037	0.010	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Acenaphthylene	0.037U	U	ug/L	0.046	0.037	0.010	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Anthracene	0.037U	U	ug/L	0.046	0.037	0.016	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Benzo(a)anthracene	0.037U	U	ug/L	0.046	0.037	0.016	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Benzo(a)pyrene	0.037U	U	ug/L	0.046	0.037	0.019	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Benzo(b)fluoranthene	0.037U	U	ug/L	0.046	0.037	0.019	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Benzo(g,h,i)perylene	0.037U	U	ug/L	0.046	0.037	0.035	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Benzo(k)fluoranthene	0.037U	U	ug/L	0.046	0.037	0.023	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Chrysene	0.016J	J	ug/L	0.046	0.037	0.016	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Dibenzo(a,h)anthracene	0.037U	U	ug/L	0.046	0.037	0.021	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
2,4-Dinitrotoluene	0.037U	U	ug/L	0.046	0.037	0.019	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
2,6-Dinitrotoluene	0.037U	U	ug/L	0.046	0.037	0.029	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Fluoranthene	0.020J	J	ug/L	0.046	0.037	0.017	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Fluorene	0.037U	U	ug/L	0.046	0.037	0.014	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Indeno(1,2,3-cd)pyrene	0.046U	U	ug/L	0.046	0.046	0.038	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Naphthalene	0.037U	U	ug/L	0.046	0.037	0.034	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Phenanthrene	0.037U	U	ug/L	0.046	0.037	0.019	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Pyrene	0.014J	J	ug/L	0.046	0.037	0.014	8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	79.8		%	29 - 112			8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B
Fluoranthene-d10 (S)	92.3		%	45 - 130			8270 SIM	5/31/16 LEH	6/2/16 15:35	CGS	B

LIBRARY SEARCH - SEMI-VOLATILE

No TIC's Detected

Lib Search SV

6/1/16 14:49 DRS B



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758004**
Sample ID: **202MW01-9.5**

Date Collected: 5/25/2016 11:55 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 15:22	TMP	D
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		6/2/16 15:22	TMP	D
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Bromomethane	0.44J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 15:22	TMP	D
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		6/2/16 15:22	TMP	D
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/2/16 15:22	TMP	D
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758004**
Sample ID: **202MW01-9.5**

Date Collected: 5/25/2016 11:55 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Hexachlorobutadiene	0.75U	U	ug/L	1.0	0.75	0.43	SW846 8260C		6/2/16 15:22	TMP	D
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 15:22	TMP	D
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/2/16 15:22	TMP	D
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/2/16 15:22	TMP	D
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/2/16 15:22	TMP	D
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		6/2/16 15:22	TMP	D
Surrogate Recoveries	Results	Flag	Units	Limits			Method	Prepared By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	97.9		%	81 - 118			SW846 8260C		6/2/16 15:22	TMP	D
4-Bromofluorobenzene (S)	102		%	85 - 114			SW846 8260C		6/2/16 15:22	TMP	D
Dibromofluoromethane (S)	87.2		%	80 - 119			SW846 8260C		6/2/16 15:22	TMP	D
Toluene-d8 (S)	105		%	89 - 112			SW846 8260C		6/2/16 15:22	TMP	D

LIBRARY SEARCH - VOLATILES

No TIC's Detected . Lib Search VOC 6/2/16 15:22 JAH D

SEMIVOLATILES

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758004**
Sample ID: **202MW01-9.5**

Date Collected: 5/25/2016 11:55 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Acenaphthene	1.2U	U	ug/L	2.3	1.2	0.17	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Acenaphthylene	1.2U	U	ug/L	2.3	1.2	0.22	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Anthracene	1.2U	U	ug/L	2.3	1.2	0.17	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Benzidine	34.9U	U	ug/L	34.9	34.9	3.6	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Benzo(a)anthracene	1.2U	U	ug/L	2.3	1.2	0.15	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Benzo(a)pyrene	1.2U	U	ug/L	2.3	1.2	0.26	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Benzo(b)fluoranthene	1.2U	U	ug/L	2.3	1.2	0.13	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Benzo(g,h,i)perylene	1.2U	U	ug/L	2.3	1.2	0.26	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Benzo(k)fluoranthene	1.2U	U	ug/L	2.3	1.2	0.22	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Benzyl Alcohol	2.3U	U	ug/L	9.3	2.3	0.27	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
4-Bromophenyl-phenylether	1.2U	U	ug/L	9.3	1.2	0.20	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Butylbenzylphthalate	1.2U	U	ug/L	9.3	1.2	0.13	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Carbazole	1.2U	U	ug/L	9.3	1.2	0.14	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
4-Chloro-3-methylphenol	1.2U	U	ug/L	9.3	1.2	0.22	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
4-Chloroaniline	1.2U	U	ug/L	9.3	1.2	0.24	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
bis(2-Chloroethoxy)methane	1.2U	U	ug/L	9.3	1.2	0.24	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
bis(2-Chloroethyl)ether	1.2U	U	ug/L	9.3	1.2	0.20	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
bis(2-Chloroisopropyl)ether	1.2U	U	ug/L	9.3	1.2	0.33	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2-Chloronaphthalene	1.2U	U	ug/L	9.3	1.2	0.21	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2-Chlorophenol	2.3U	U	ug/L	9.3	2.3	0.38	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
4-Chlorophenyl-phenylether	1.2U	U	ug/L	9.3	1.2	0.16	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Chrysene	1.2U	U	ug/L	2.3	1.2	0.14	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
mp-Cresol	1.2U	U	ug/L	9.3	1.2	0.17	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
o-Cresol	1.2U	U	ug/L	9.3	1.2	0.29	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Di-n-Butylphthalate	1.2U	U	ug/L	9.3	1.2	0.16	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Di-n-Octylphthalate	1.2U	U	ug/L	9.3	1.2	0.12	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Dibenzo(a,h)anthracene	1.2U	U	ug/L	2.3	1.2	0.24	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Dibenzofuran	1.2U	U	ug/L	9.3	1.2	0.13	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
1,2-Dichlorobenzene	1.2U	U	ug/L	9.3	1.2	0.23	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
1,3-Dichlorobenzene	1.2U	U	ug/L	9.3	1.2	0.20	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
1,4-Dichlorobenzene	1.2U	U	ug/L	9.3	1.2	0.21	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
3,3-Dichlorobenzidine	3.5U	U	ug/L	18.6	3.5	0.56	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2,4-Dichlorophenol	1.2U	U	ug/L	9.3	1.2	0.37	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Diethylphthalate	1.2U	U	ug/L	9.3	1.2	0.21	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2,4-Dimethylphenol	5.8U	U	ug/L	9.3	5.8	0.24	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Dimethylphthalate	1.2U	U	ug/L	9.3	1.2	0.16	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2,4-Dinitrophenol	9.3U	U	ug/L	18.6	9.3	2.1	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2,4-Dinitrotoluene	1.2U	U	ug/L	9.3	1.2	0.14	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758004**
Sample ID: **202MW01-9.5**

Date Collected: 5/25/2016 11:55 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2,6-Dinitrotoluene	1.2U	U	ug/L	9.3	1.2	0.24	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
1,2-Diphenylhydrazine	1.2U	U	ug/L	9.3	1.2	0.30	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
bis(2-Ethylhexyl)phthalate	1.2U	U	ug/L	9.3	1.2	0.26	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Fluoranthene	1.2U	U	ug/L	2.3	1.2	0.20	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Fluorene	1.2U	U	ug/L	2.3	1.2	0.23	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Hexachlorobenzene	1.2U	U	ug/L	9.3	1.2	0.27	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Hexachlorobutadiene	1.2U	U	ug/L	9.3	1.2	0.22	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Hexachlorocyclopentadiene	2.3U	U	ug/L	9.3	2.3	0.20	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Hexachloroethane	1.2U	U	ug/L	9.3	1.2	0.35	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Indeno(1,2,3-cd)pyrene	1.2U	U	ug/L	2.3	1.2	0.12	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Isophorone	1.2U	U	ug/L	9.3	1.2	0.17	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2-Methyl-4,6-dinitrophenol	5.8U	U	ug/L	9.3	5.8	0.38	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2-Methylnaphthalene	1.2U	U	ug/L	2.3	1.2	0.19	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Naphthalene	1.2U	U	ug/L	2.3	1.2	0.14	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2-Nitroaniline	1.2U	U	ug/L	9.3	1.2	0.23	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
3-Nitroaniline	2.3U	U	ug/L	9.3	2.3	0.21	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
4-Nitroaniline	1.2U	U	ug/L	9.3	1.2	0.48	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Nitrobenzene	2.3U	U	ug/L	9.3	2.3	0.33	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2-Nitrophenol	2.3U	U	ug/L	9.3	2.3	0.52	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
4-Nitrophenol	5.8U	U	ug/L	9.3	5.8	1.2	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
N-Nitrosodimethylamine	2.3U	U	ug/L	9.3	2.3	0.74	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
N-Nitroso-di-n-propylamine	1.2U	U	ug/L	9.3	1.2	0.28	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
N-Nitrosodiphenylamine	2.3U	U	ug/L	9.3	2.3	0.21	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Pentachlorophenol	9.3U	U	ug/L	18.6	9.3	1.2	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Phenanthrene	1.2U	U	ug/L	2.3	1.2	0.15	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Phenol	1.2U	U	ug/L	9.3	1.2	0.27	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Pyrene	1.2U	U	ug/L	2.3	1.2	0.19	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
1,2,4-Trichlorobenzene	1.2U	U	ug/L	9.3	1.2	0.15	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2,4,5-Trichlorophenol	3.5U	U	ug/L	9.3	3.5	0.64	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2,4,6-Trichlorophenol	1.2U	U	ug/L	9.3	1.2	0.66	SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	93.1		%	43 - 140			SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2-Fluorobiphenyl (S)	84.1		%	44 - 119			SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
2-Fluorophenol (S)	61.9		%	19 - 119			SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Nitrobenzene-d5 (S)	89.2		%	44 - 120			SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Phenol-d5 (S)	38.6		%	13 - 49			SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B
Terphenyl-d14 (S)	95.7		%	50 - 134			SW846 8270D	5/31/16 LEH	6/1/16 14:00	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758004**
Sample ID: **202MW01-9.5**

Date Collected: 5/25/2016 11:55 Matrix: Water
Date Received: 5/26/2016 09:14

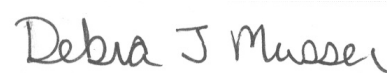
Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILE SIM											
Acenaphthene	0.047U	U	ug/L	0.058	0.047	0.013	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Acenaphthylene	0.047U	U	ug/L	0.058	0.047	0.013	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Anthracene	0.047U	U	ug/L	0.058	0.047	0.020	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Benzo(a)anthracene	0.047U	U	ug/L	0.058	0.047	0.020	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Benzo(a)pyrene	0.047U	U	ug/L	0.058	0.047	0.023	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Benzo(b)fluoranthene	0.047U	U	ug/L	0.058	0.047	0.023	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Benzo(g,h,i)perylene	0.047U	U	ug/L	0.058	0.047	0.044	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Benzo(k)fluoranthene	0.047U	U	ug/L	0.058	0.047	0.029	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Chrysene	0.047U	U	ug/L	0.058	0.047	0.020	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Dibenzo(a,h)anthracene	0.047U	U	ug/L	0.058	0.047	0.027	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
2,4-Dinitrotoluene	0.047U	U	ug/L	0.058	0.047	0.024	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
2,6-Dinitrotoluene	0.047U	U	ug/L	0.058	0.047	0.036	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Fluoranthene	0.022J	J	ug/L	0.058	0.047	0.021	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Fluorene	0.047U	U	ug/L	0.058	0.047	0.017	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Indeno(1,2,3-cd)pyrene	0.058U	U	ug/L	0.058	0.058	0.048	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Naphthalene	0.047U	U	ug/L	0.058	0.047	0.043	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Phenanthrene	0.047U	U	ug/L	0.058	0.047	0.023	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Pyrene	0.047U	U	ug/L	0.058	0.047	0.017	8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	87.7		%	29 - 112			8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B
Fluoranthene-d10 (S)	94.6		%	45 - 130			8270 SIM	5/31/16 LEH	6/2/16 14:43	CGS	B

LIBRARY SEARCH - SEMI-VOLATILE

No TIC's Detected

Lib Search SV

6/1/16 14:00 DRS B



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758005**
Sample ID: **490MW01-9.5**

Date Collected: 5/25/2016 14:05 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	5.0J	J	ug/L	5.0	3.8	1.6	SW846 8260C		6/7/16 15:33	TMP	E
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		6/7/16 15:33	TMP	E
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Bromomethane	0.52J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/7/16 15:33	TMP	E
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		6/7/16 15:33	TMP	E
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
tert-Butylbenzene	0.78J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
sec-Butylbenzene	4.7		ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Chloromethane	0.58J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/7/16 15:33	TMP	E
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758005**
Sample ID: **490MW01-9.5**

Date Collected: 5/25/2016 14:05 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Hexachlorobutadiene	0.75U	U	ug/L	1.0	0.75	0.43	SW846 8260C		6/7/16 15:33	TMP	E
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/7/16 15:33	TMP	E
Isopropylbenzene	0.46J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/7/16 15:33	TMP	E
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Naphthalene	4.4		ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/7/16 15:33	TMP	E
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:33	TMP	E
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		6/7/16 15:33	TMP	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	95.8		%	81 - 118			SW846 8260C		6/7/16 15:33	TMP	E
4-Bromofluorobenzene (S)	91.2		%	85 - 114			SW846 8260C		6/7/16 15:33	TMP	E
Dibromofluoromethane (S)	88.8		%	80 - 119			SW846 8260C		6/7/16 15:33	TMP	E
Toluene-d8 (S)	99.6		%	89 - 112			SW846 8260C		6/7/16 15:33	TMP	E
Library Search - Volatiles											
Benzeneethanol, .beta.-ethenyl	8.2	J N	ug/L				SW846 8260C		6/7/16 15:33	TMP	E

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758005**
Sample ID: **490MW01-9.5**

Date Collected: 5/25/2016 14:05 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
1H-Indene, 2,3-dihydro-1,6-dim	12.7	J N	ug/L				SW846 8270C		6/7/16 15:33	TMP	E
SEMIVOLATILES											
Acenaphthene	1.4J	J	ug/L	2.2	1.1	0.16	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Acenaphthylene	1.1U	U	ug/L	2.2	1.1	0.21	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Anthracene	1.1U	U	ug/L	2.2	1.1	0.16	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Benidine	32.4U	U	ug/L	32.4	32.4	3.4	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Benzo(a)anthracene	1.1U	U	ug/L	2.2	1.1	0.14	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Benzo(a)pyrene	1.1U	U	ug/L	2.2	1.1	0.24	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Benzo(b)fluoranthene	1.1U	U	ug/L	2.2	1.1	0.12	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Benzo(g,h,i)perylene	1.1U	U	ug/L	2.2	1.1	0.24	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Benzo(k)fluoranthene	1.1U	U	ug/L	2.2	1.1	0.21	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Benzyl Alcohol	2.2U	U	ug/L	8.6	2.2	0.25	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
4-Bromophenyl-phenylether	1.1U	U	ug/L	8.6	1.1	0.18	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Butylbenzylphthalate	1.1U	U	ug/L	8.6	1.1	0.12	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Carbazole	2.5J	J	ug/L	8.6	1.1	0.13	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
4-Chloro-3-methylphenol	1.1U	U	ug/L	8.6	1.1	0.21	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
4-Chloroaniline	1.1U	U	ug/L	8.6	1.1	0.23	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
bis(2-Chloroethoxy)methane	1.1U	U	ug/L	8.6	1.1	0.23	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
bis(2-Chloroethyl)ether	1.1U	U	ug/L	8.6	1.1	0.18	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
bis(2-Chloroisopropyl)ether	1.1U	U	ug/L	8.6	1.1	0.30	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2-Chloronaphthalene	1.1U	U	ug/L	8.6	1.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2-Chlorophenol	2.2U	U	ug/L	8.6	2.2	0.36	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
4-Chlorophenyl-phenylether	1.1U	U	ug/L	8.6	1.1	0.15	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Chrysene	1.1U	U	ug/L	2.2	1.1	0.13	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
mp-Cresol	1.1U	U	ug/L	8.6	1.1	0.16	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
o-Cresol	1.1U	U	ug/L	8.6	1.1	0.27	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Di-n-Butylphthalate	1.1U	U	ug/L	8.6	1.1	0.15	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Di-n-Octylphthalate	1.1U	U	ug/L	8.6	1.1	0.11	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Dibenzo(a,h)anthracene	1.1U	U	ug/L	2.2	1.1	0.23	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Dibenzofuran	3.3J	J	ug/L	8.6	1.1	0.12	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
1,2-Dichlorobenzene	1.1U	U	ug/L	8.6	1.1	0.22	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
1,3-Dichlorobenzene	1.1U	U	ug/L	8.6	1.1	0.18	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
1,4-Dichlorobenzene	1.1U	U	ug/L	8.6	1.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
3,3-Dichlorobenzidine	3.2U	U	ug/L	17.3	3.2	0.52	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2,4-Dichlorophenol	1.1U	U	ug/L	8.6	1.1	0.35	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Diethylphthalate	1.1U	U	ug/L	8.6	1.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2,4-Dimethylphenol	5.4U	U	ug/L	8.6	5.4	0.23	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758005**
Sample ID: **490MW01-9.5**

Date Collected: 5/25/2016 14:05 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Dimethylphthalate	1.1U	U	ug/L	8.6	1.1	0.15	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2,4-Dinitrophenol	8.6U	U	ug/L	17.3	8.6	2.0	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2,4-Dinitrotoluene	1.1U	U	ug/L	8.6	1.1	0.13	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2,6-Dinitrotoluene	1.1U	U	ug/L	8.6	1.1	0.23	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
1,2-Diphenylhydrazine	1.1U	U	ug/L	8.6	1.1	0.28	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
bis(2-Ethylhexyl)phthalate	1.1U	U	ug/L	8.6	1.1	0.24	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Fluoranthene	1.1U	U	ug/L	2.2	1.1	0.18	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Fluorene	2.2		ug/L	2.2	1.1	0.22	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Hexachlorobenzene	1.1U	U	ug/L	8.6	1.1	0.25	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Hexachlorobutadiene	1.1U	U	ug/L	8.6	1.1	0.21	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Hexachlorocyclopentadiene	2.2U	U	ug/L	8.6	2.2	0.18	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Hexachloroethane	1.1U	U	ug/L	8.6	1.1	0.32	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Indeno(1,2,3-cd)pyrene	1.1U	U	ug/L	2.2	1.1	0.11	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Isophorone	1.1U	U	ug/L	8.6	1.1	0.16	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2-Methyl-4,6-dinitrophenol	5.4U	U	ug/L	8.6	5.4	0.36	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2-Methylnaphthalene	1.1U	U	ug/L	2.2	1.1	0.17	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Naphthalene	1.1U	U	ug/L	2.2	1.1	0.13	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2-Nitroaniline	1.1U	U	ug/L	8.6	1.1	0.22	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
3-Nitroaniline	2.2U	U	ug/L	8.6	2.2	0.19	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
4-Nitroaniline	1.1U	U	ug/L	8.6	1.1	0.44	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Nitrobenzene	2.2U	U	ug/L	8.6	2.2	0.30	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2-Nitrophenol	2.2U	U	ug/L	8.6	2.2	0.49	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
4-Nitrophenol	5.4U	U	ug/L	8.6	5.4	1.1	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
N-Nitrosodimethylamine	2.2U	U	ug/L	8.6	2.2	0.69	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
N-Nitroso-di-n-propylamine	1.1U	U	ug/L	8.6	1.1	0.26	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
N-Nitrosodiphenylamine	2.2U	U	ug/L	8.6	2.2	0.19	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Pentachlorophenol	8.6U	U	ug/L	17.3	8.6	1.2	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Phenanthrene	0.52J	J	ug/L	2.2	1.1	0.14	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Phenol	1.1U	U	ug/L	8.6	1.1	0.25	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Pyrene	1.1U	U	ug/L	2.2	1.1	0.17	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
1,2,4-Trichlorobenzene	1.1U	U	ug/L	8.6	1.1	0.14	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2,4,5-Trichlorophenol	3.2U	U	ug/L	8.6	3.2	0.59	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2,4,6-Trichlorophenol	1.1U	U	ug/L	8.6	1.1	0.62	SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	92.2		%	43 - 140			SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2-Fluorobiphenyl (S)	78.4		%	44 - 119			SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
2-Fluorophenol (S)	60.7		%	19 - 119			SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Nitrobenzene-d5 (S)	84.2		%	44 - 120			SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758005**
Sample ID: **490MW01-9.5**

Date Collected: 5/25/2016 14:05 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Phenol-d5 (S)	38.7		%	13 - 49			SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Terphenyl-d14 (S)	94.2		%	50 - 134			SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Library Search - SemiVolatiles											
Benzene, (1-methylpropyl)-	5.6	J N	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
1H-Indene, 2,3-dihydro-1,6-dim	5.9	J N	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Naphthalene, 1,2,3,4-tetrahydr	4.3	J N	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Benzene, cyclohexyl-	6.6	J N	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Unknown	4.9	J	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
Unknown	4.4	J	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
1-Naphthalenecarboxylic acid,	5.0	J N	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 18:05	CGS	B
SEMIVOLATILE SIM											
Acenaphthene	1.2		ug/L	0.054	0.043	0.012	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Acenaphthylene	0.17		ug/L	0.054	0.043	0.012	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Anthracene	0.14		ug/L	0.054	0.043	0.018	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Benzo(a)anthracene	0.043U	U	ug/L	0.054	0.043	0.018	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Benzo(a)pyrene	0.043U	U	ug/L	0.054	0.043	0.022	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Benzo(b)fluoranthene	0.043U	U	ug/L	0.054	0.043	0.022	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Benzo(g,h,i)perylene	0.043U	U	ug/L	0.054	0.043	0.041	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Benzo(k)fluoranthene	0.043U	U	ug/L	0.054	0.043	0.027	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Chrysene	0.043U	U	ug/L	0.054	0.043	0.018	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Dibenzo(a,h)anthracene	0.043U	U	ug/L	0.054	0.043	0.025	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
2,4-Dinitrotoluene	0.043U	U	ug/L	0.054	0.043	0.023	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
2,6-Dinitrotoluene	0.043U	U	ug/L	0.054	0.043	0.034	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Fluoranthene	0.043U	U	ug/L	0.054	0.043	0.019	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Fluorene	2.5		ug/L	0.054	0.043	0.016	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Indeno(1,2,3-cd)pyrene	0.054U	U	ug/L	0.054	0.054	0.044	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Naphthalene	0.83		ug/L	0.054	0.043	0.040	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Phenanthrene	0.50		ug/L	0.054	0.043	0.022	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Pyrene	0.043U	U	ug/L	0.054	0.043	0.016	8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	94.8		%	29 - 112			8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B
Fluoranthene-d10 (S)	101		%	45 - 130			8270 SIM	5/31/16 LEH	6/2/16 16:53	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758005**
Sample ID: **490MW01-9.5**Date Collected: 5/25/2016 14:05 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator**ALS Environmental Laboratory Locations Across North America****Canada:** Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758006** Date Collected: 5/25/2016 14:50 Matrix: Water
Sample ID: **490MW01-14.5** Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	5.7		ug/L	5.0	3.8	1.6	SW846 8260C		6/7/16 15:50	TMP	E
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		6/7/16 15:50	TMP	E
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Bromomethane	0.60J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/7/16 15:50	TMP	E
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		6/7/16 15:50	TMP	E
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
tert-Butylbenzene	0.85J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
sec-Butylbenzene	4.6		ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/7/16 15:50	TMP	E
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758006**
Sample ID: **490MW01-14.5**

Date Collected: 5/25/2016 14:50 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Hexachlorobutadiene	0.75U	U	ug/L	1.0	0.75	0.43	SW846 8260C		6/7/16 15:50	TMP	E
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/7/16 15:50	TMP	E
Isopropylbenzene	0.42J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/7/16 15:50	TMP	E
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Naphthalene	4.2		ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/7/16 15:50	TMP	E
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 15:50	TMP	E
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		6/7/16 15:50	TMP	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.1		%	81 - 118			SW846 8260C		6/7/16 15:50	TMP	E
4-Bromofluorobenzene (S)	95.3		%	85 - 114			SW846 8260C		6/7/16 15:50	TMP	E
Dibromofluoromethane (S)	89.2		%	80 - 119			SW846 8260C		6/7/16 15:50	TMP	E
Toluene-d8 (S)	101		%	89 - 112			SW846 8260C		6/7/16 15:50	TMP	E
Library Search - Volatiles											
Indane	7.8	J N	ug/L				SW846 8260C		6/7/16 15:50	TMP	E
1H-Indene, 2,3-dihydro-4,7-dim	12.6	J N	ug/L				SW846 8260C		6/7/16 15:50	TMP	E

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758006**
Sample ID: **490MW01-14.5**

Date Collected: 5/25/2016 14:50 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	1.6J	J	ug/L	2.1	1.0	0.16	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Acenaphthylene	1.0U	U	ug/L	2.1	1.0	0.20	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Anthracene	1.0U	U	ug/L	2.1	1.0	0.16	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Benzidine	31.1U	U	ug/L	31.1	31.1	3.2	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Benzo(a)anthracene	1.0U	U	ug/L	2.1	1.0	0.13	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Benzo(a)pyrene	1.0U	U	ug/L	2.1	1.0	0.23	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Benzo(b)fluoranthene	1.0U	U	ug/L	2.1	1.0	0.11	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Benzo(g,h,i)perylene	1.0U	U	ug/L	2.1	1.0	0.23	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Benzo(k)fluoranthene	1.0U	U	ug/L	2.1	1.0	0.20	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Benzyl Alcohol	2.1U	U	ug/L	8.3	2.1	0.24	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
4-Bromophenyl-phenylether	1.0U	U	ug/L	8.3	1.0	0.18	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Butylbenzylphthalate	1.0U	U	ug/L	8.3	1.0	0.11	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Carbazole	2.4J	J	ug/L	8.3	1.0	0.12	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
4-Chloro-3-methylphenol	1.0U	U	ug/L	8.3	1.0	0.20	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
4-Chloroaniline	1.0U	U	ug/L	8.3	1.0	0.22	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
bis(2-Chloroethoxy)methane	1.0U	U	ug/L	8.3	1.0	0.22	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
bis(2-Chloroethyl)ether	1.0U	U	ug/L	8.3	1.0	0.18	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
bis(2-Chloroisopropyl)ether	1.0U	U	ug/L	8.3	1.0	0.29	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2-Chloronaphthalene	1.0U	U	ug/L	8.3	1.0	0.19	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2-Chlorophenol	2.1U	U	ug/L	8.3	2.1	0.34	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
4-Chlorophenyl-phenylether	1.0U	U	ug/L	8.3	1.0	0.15	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Chrysene	1.0U	U	ug/L	2.1	1.0	0.12	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
mp-Cresol	1.0U	U	ug/L	8.3	1.0	0.16	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
o-Cresol	1.0U	U	ug/L	8.3	1.0	0.26	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Di-n-Butylphthalate	1.0U	U	ug/L	8.3	1.0	0.15	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Di-n-Octylphthalate	1.0U	U	ug/L	8.3	1.0	0.10	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Dibenzo(a,h)anthracene	1.0U	U	ug/L	2.1	1.0	0.22	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Dibenzofuran	3.5J	J	ug/L	8.3	1.0	0.11	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
1,2-Dichlorobenzene	1.0U	U	ug/L	8.3	1.0	0.21	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
1,3-Dichlorobenzene	1.0U	U	ug/L	8.3	1.0	0.18	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
1,4-Dichlorobenzene	1.0U	U	ug/L	8.3	1.0	0.19	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
3,3-Dichlorobenzidine	3.1U	U	ug/L	16.6	3.1	0.50	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2,4-Dichlorophenol	1.0U	U	ug/L	8.3	1.0	0.33	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Diethylphthalate	1.0U	U	ug/L	8.3	1.0	0.19	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2,4-Dimethylphenol	5.2U	U	ug/L	8.3	5.2	0.22	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Dimethylphthalate	1.0U	U	ug/L	8.3	1.0	0.15	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2,4-Dinitrophenol	8.3U	U	ug/L	16.6	8.3	1.9	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758006**
Sample ID: **490MW01-14.5**

Date Collected: 5/25/2016 14:50 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2,4-Dinitrotoluene	1.0U	U	ug/L	8.3	1.0	0.12	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2,6-Dinitrotoluene	1.0U	U	ug/L	8.3	1.0	0.22	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
1,2-Diphenylhydrazine	1.0U	U	ug/L	8.3	1.0	0.27	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
bis(2-Ethylhexyl)phthalate	1.0U	U	ug/L	8.3	1.0	0.23	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Fluoranthene	1.0U	U	ug/L	2.1	1.0	0.18	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Fluorene	2.3		ug/L	2.1	1.0	0.21	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Hexachlorobenzene	1.0U	U	ug/L	8.3	1.0	0.24	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Hexachlorobutadiene	1.0U	U	ug/L	8.3	1.0	0.20	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Hexachlorocyclopentadiene	2.1U	U	ug/L	8.3	2.1	0.18	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Hexachloroethane	1.0U	U	ug/L	8.3	1.0	0.31	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Indeno(1,2,3-cd)pyrene	1.0U	U	ug/L	2.1	1.0	0.10	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Isophorone	1.0U	U	ug/L	8.3	1.0	0.16	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2-Methyl-4,6-dinitrophenol	5.2U	U	ug/L	8.3	5.2	0.34	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2-Methylnaphthalene	1.0U	U	ug/L	2.1	1.0	0.17	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Naphthalene	1.0U	U	ug/L	2.1	1.0	0.12	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2-Nitroaniline	1.0U	U	ug/L	8.3	1.0	0.21	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
3-Nitroaniline	2.1U	U	ug/L	8.3	2.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
4-Nitroaniline	1.0U	U	ug/L	8.3	1.0	0.42	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Nitrobenzene	2.1U	U	ug/L	8.3	2.1	0.29	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2-Nitrophenol	2.1U	U	ug/L	8.3	2.1	0.47	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
4-Nitrophenol	5.2U	U	ug/L	8.3	5.2	1.1	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
N-Nitrosodimethylamine	2.1U	U	ug/L	8.3	2.1	0.66	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
N-Nitroso-di-n-propylamine	1.0U	U	ug/L	8.3	1.0	0.25	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
N-Nitrosodiphenylamine	2.1U	U	ug/L	8.3	2.1	0.19	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Pentachlorophenol	8.3U	U	ug/L	16.6	8.3	1.1	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Phenanthrene	0.58J	J	ug/L	2.1	1.0	0.13	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Phenol	1.0U	U	ug/L	8.3	1.0	0.24	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Pyrene	1.0U	U	ug/L	2.1	1.0	0.17	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
1,2,4-Trichlorobenzene	1.0U	U	ug/L	8.3	1.0	0.13	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2,4,5-Trichlorophenol	3.1U	U	ug/L	8.3	3.1	0.57	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2,4,6-Trichlorophenol	1.0U	U	ug/L	8.3	1.0	0.59	SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	91.2		%	43 - 140			SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2-Fluorobiphenyl (S)	80.8		%	44 - 119			SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
2-Fluorophenol (S)	59.7		%	19 - 119			SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Nitrobenzene-d5 (S)	83.9		%	44 - 120			SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Phenol-d5 (S)	38.2		%	13 - 49			SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B
Terphenyl-d14 (S)	92		%	50 - 134			SW846 8270D	5/31/16 LEH	6/1/16 18:30	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758006**
Sample ID: **490MW01-14.5**

Date Collected: 5/25/2016 14:50 Matrix: Water
Date Received: 5/26/2016 09:14

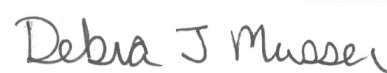
Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILE SIM											
Acenaphthene	1.1		ug/L	0.052	0.041	0.011	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Acenaphthylene	0.14		ug/L	0.052	0.041	0.011	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Anthracene	0.13		ug/L	0.052	0.041	0.018	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Benzo(a)anthracene	0.041U	U	ug/L	0.052	0.041	0.018	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Benzo(a)pyrene	0.041U	U	ug/L	0.052	0.041	0.021	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Benzo(b)fluoranthene	0.041U	U	ug/L	0.052	0.041	0.021	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Benzo(g,h,i)perylene	0.041U	U	ug/L	0.052	0.041	0.039	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Benzo(k)fluoranthene	0.041U	U	ug/L	0.052	0.041	0.026	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Chrysene	0.041U	U	ug/L	0.052	0.041	0.018	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Dibenzo(a,h)anthracene	0.041U	U	ug/L	0.052	0.041	0.024	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
2,4-Dinitrotoluene	0.041U	U	ug/L	0.052	0.041	0.022	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
2,6-Dinitrotoluene	0.041U	U	ug/L	0.052	0.041	0.032	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Fluoranthene	0.041U	U	ug/L	0.052	0.041	0.019	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Fluorene	2.2		ug/L	0.052	0.041	0.016	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Indeno(1,2,3-cd)pyrene	0.052U	U	ug/L	0.052	0.052	0.042	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Naphthalene	0.83		ug/L	0.052	0.041	0.038	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Phenanthrene	0.50		ug/L	0.052	0.041	0.021	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Pyrene	0.041U	U	ug/L	0.052	0.041	0.016	8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	90.1		%	29 - 112			8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B
Fluoranthene-d10 (S)	99.5		%	45 - 130			8270 SIM	5/31/16 LEH	6/2/16 17:18	CGS	B

LIBRARY SEARCH - SEMI-VOLATILE

No TIC's Detected

Lib Search SV

6/1/16 18:30 DRS B



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758007** Date Collected: 5/25/2016 15:45 Matrix: Water
Sample ID: **490MW01-19.5** Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	4.8J	J	ug/L	5.0	3.8	1.6	SW846 8260C		6/7/16 16:07	TMP	E
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		6/7/16 16:07	TMP	E
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Bromomethane	0.51J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/7/16 16:07	TMP	E
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		6/7/16 16:07	TMP	E
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
tert-Butylbenzene	0.78J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
sec-Butylbenzene	4.9		ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Chloromethane	0.48J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/7/16 16:07	TMP	E
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758007**
Sample ID: **490MW01-19.5**

Date Collected: 5/25/2016 15:45 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Hexachlorobutadiene	0.75U	U	ug/L	1.0	0.75	0.43	SW846 8260C		6/7/16 16:07	TMP	E
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/7/16 16:07	TMP	E
Isopropylbenzene	0.42J	J	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		6/7/16 16:07	TMP	E
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Naphthalene	4.3		ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		6/7/16 16:07	TMP	E
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		6/7/16 16:07	TMP	E
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		6/7/16 16:07	TMP	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.2		%	81 - 118			SW846 8260C		6/7/16 16:07	TMP	E
4-Bromofluorobenzene (S)	98.1		%	85 - 114			SW846 8260C		6/7/16 16:07	TMP	E
Dibromofluoromethane (S)	89		%	80 - 119			SW846 8260C		6/7/16 16:07	TMP	E
Toluene-d8 (S)	102		%	89 - 112			SW846 8260C		6/7/16 16:07	TMP	E
Library Search - Volatiles											
1H-Indene, 2,3-dihydro-	8.1	J N	ug/L				SW846 8260C		6/7/16 16:07	TMP	E
1H-Indene, 2,3-dihydro-4,7-dim	13.4	J N	ug/L				SW846 8260C		6/7/16 16:07	TMP	E

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758007**
Sample ID: **490MW01-19.5**

Date Collected: 5/25/2016 15:45 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	1.5J	J	ug/L	2.0	1.0	0.15	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Acenaphthylene	1.0U	U	ug/L	2.0	1.0	0.19	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Anthracene	0.25J	J	ug/L	2.0	1.0	0.15	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Benzidine	30.3U	U	ug/L	30.3	30.3	3.1	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Benzo(a)anthracene	1.0U	U	ug/L	2.0	1.0	0.13	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Benzo(a)pyrene	1.0U	U	ug/L	2.0	1.0	0.22	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Benzo(b)fluoranthene	1.0U	U	ug/L	2.0	1.0	0.11	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Benzo(g,h,i)perylene	1.0U	U	ug/L	2.0	1.0	0.22	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Benzo(k)fluoranthene	1.0U	U	ug/L	2.0	1.0	0.19	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Benzyl Alcohol	2.0U	U	ug/L	8.1	2.0	0.23	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
4-Bromophenyl-phenylether	1.0U	U	ug/L	8.1	1.0	0.17	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Butylbenzylphthalate	1.0U	U	ug/L	8.1	1.0	0.11	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Carbazole	2.6J	J	ug/L	8.1	1.0	0.12	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
4-Chloro-3-methylphenol	1.0U	U	ug/L	8.1	1.0	0.19	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
4-Chloroaniline	1.0U	U	ug/L	8.1	1.0	0.21	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
bis(2-Chloroethoxy)methane	1.0U	U	ug/L	8.1	1.0	0.21	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
bis(2-Chloroethyl)ether	1.0U	U	ug/L	8.1	1.0	0.17	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
bis(2-Chloroisopropyl)ether	1.0U	U	ug/L	8.1	1.0	0.28	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2-Chloronaphthalene	1.0U	U	ug/L	8.1	1.0	0.18	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2-Chlorophenol	2.0U	U	ug/L	8.1	2.0	0.33	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
4-Chlorophenyl-phenylether	1.0U	U	ug/L	8.1	1.0	0.14	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Chrysene	1.0U	U	ug/L	2.0	1.0	0.12	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
mp-Cresol	1.0U	U	ug/L	8.1	1.0	0.15	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
o-Cresol	1.0U	U	ug/L	8.1	1.0	0.25	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Di-n-Butylphthalate	1.0U	U	ug/L	8.1	1.0	0.14	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Di-n-Octylphthalate	1.0U	U	ug/L	8.1	1.0	0.10	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Dibenzo(a,h)anthracene	1.0U	U	ug/L	2.0	1.0	0.21	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Dibenzofuran	3.6J	J	ug/L	8.1	1.0	0.11	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
1,2-Dichlorobenzene	1.0U	U	ug/L	8.1	1.0	0.20	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
1,3-Dichlorobenzene	1.0U	U	ug/L	8.1	1.0	0.17	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
1,4-Dichlorobenzene	1.0U	U	ug/L	8.1	1.0	0.18	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
3,3-Dichlorobenzidine	3.0U	U	ug/L	16.2	3.0	0.48	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2,4-Dichlorophenol	1.0U	U	ug/L	8.1	1.0	0.32	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Diethylphthalate	1.0U	U	ug/L	8.1	1.0	0.18	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2,4-Dimethylphenol	5.1U	U	ug/L	8.1	5.1	0.21	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Dimethylphthalate	1.0U	U	ug/L	8.1	1.0	0.14	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2,4-Dinitrophenol	8.1U	U	ug/L	16.2	8.1	1.8	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758007**
Sample ID: **490MW01-19.5**

Date Collected: 5/25/2016 15:45 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
2,4-Dinitrotoluene	1.0U	U	ug/L	8.1	1.0	0.12	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2,6-Dinitrotoluene	1.0U	U	ug/L	8.1	1.0	0.21	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
1,2-Diphenylhydrazine	1.0U	U	ug/L	8.1	1.0	0.26	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
bis(2-Ethylhexyl)phthalate	1.0U	U	ug/L	8.1	1.0	0.22	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Fluoranthene	1.0U	U	ug/L	2.0	1.0	0.17	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Fluorene	2.3		ug/L	2.0	1.0	0.20	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Hexachlorobenzene	1.0U	U	ug/L	8.1	1.0	0.23	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Hexachlorobutadiene	1.0U	U	ug/L	8.1	1.0	0.19	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Hexachlorocyclopentadiene	2.0U	U	ug/L	8.1	2.0	0.17	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Hexachloroethane	1.0U	U	ug/L	8.1	1.0	0.30	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Indeno(1,2,3-cd)pyrene	1.0U	U	ug/L	2.0	1.0	0.10	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Isophorone	1.0U	U	ug/L	8.1	1.0	0.15	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2-Methyl-4,6-dinitrophenol	5.1U	U	ug/L	8.1	5.1	0.33	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2-Methylnaphthalene	1.0U	U	ug/L	2.0	1.0	0.16	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Naphthalene	1.0U	U	ug/L	2.0	1.0	0.12	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2-Nitroaniline	1.0U	U	ug/L	8.1	1.0	0.20	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
3-Nitroaniline	2.0U	U	ug/L	8.1	2.0	0.18	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
4-Nitroaniline	1.0U	U	ug/L	8.1	1.0	0.41	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Nitrobenzene	2.0U	U	ug/L	8.1	2.0	0.28	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2-Nitrophenol	2.0U	U	ug/L	8.1	2.0	0.45	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
4-Nitrophenol	5.1U	U	ug/L	8.1	5.1	1.1	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
N-Nitrosodimethylamine	2.0U	U	ug/L	8.1	2.0	0.65	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
N-Nitroso-di-n-propylamine	1.0U	U	ug/L	8.1	1.0	0.24	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
N-Nitrosodiphenylamine	2.0U	U	ug/L	8.1	2.0	0.18	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Pentachlorophenol	8.1U	U	ug/L	16.2	8.1	1.1	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Phenanthrene	0.56J	J	ug/L	2.0	1.0	0.13	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Phenol	1.0U	U	ug/L	8.1	1.0	0.23	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Pyrene	1.0U	U	ug/L	2.0	1.0	0.16	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
1,2,4-Trichlorobenzene	1.0U	U	ug/L	8.1	1.0	0.13	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2,4,5-Trichlorophenol	3.0U	U	ug/L	8.1	3.0	0.56	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2,4,6-Trichlorophenol	1.0U	U	ug/L	8.1	1.0	0.58	SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	93.4		%	43 - 140			SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2-Fluorobiphenyl (S)	81.2		%	44 - 119			SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
2-Fluorophenol (S)	60		%	19 - 119			SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Nitrobenzene-d5 (S)	84.8		%	44 - 120			SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Phenol-d5 (S)	37.9		%	13 - 49			SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Terphenyl-d14 (S)	92.6		%	50 - 134			SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758007**
Sample ID: **490MW01-19.5**

Date Collected: 5/25/2016 15:45 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
Library Search - SemiVolatiles											
Benzene, (1-methylpropyl)-	5.8	J N	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
1H-Indene, 2,3-dihydro-4,7-dim	6.3	J N	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Naphthalene, 1,2,3,4-tetrahydr	4.2	J N	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Unknown	6.5	J	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Unknown	5.7	J	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
Unknown	5.0	J	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
1-Naphthalenecarboxylic acid,	5.1	J N	ug/L				SW846 8270D	5/31/16 LEH	6/1/16 17:16	CGS	B
SEMIVOLATILE SIM											
Acenaphthene	1.1		ug/L	0.051	0.040	0.011	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Acenaphthylene	0.14		ug/L	0.051	0.040	0.011	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Anthracene	0.13		ug/L	0.051	0.040	0.017	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Benzo(a)anthracene	0.040U	U	ug/L	0.051	0.040	0.017	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Benzo(a)pyrene	0.040U	U	ug/L	0.051	0.040	0.020	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Benzo(b)fluoranthene	0.040U	U	ug/L	0.051	0.040	0.020	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Benzo(g,h,i)perylene	0.040U	U	ug/L	0.051	0.040	0.038	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Benzo(k)fluoranthene	0.040U	U	ug/L	0.051	0.040	0.025	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Chrysene	0.040U	U	ug/L	0.051	0.040	0.017	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Dibenzo(a,h)anthracene	0.040U	U	ug/L	0.051	0.040	0.023	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
2,4-Dinitrotoluene	0.040U	U	ug/L	0.051	0.040	0.021	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
2,6-Dinitrotoluene	0.040U	U	ug/L	0.051	0.040	0.031	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Fluoranthene	0.040U	U	ug/L	0.051	0.040	0.018	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Fluorene	2.2		ug/L	0.051	0.040	0.015	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Indeno(1,2,3-cd)pyrene	0.051U	U	ug/L	0.051	0.051	0.041	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Naphthalene	0.83		ug/L	0.051	0.040	0.037	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Phenanthrene	0.49		ug/L	0.051	0.040	0.020	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Pyrene	0.040U	U	ug/L	0.051	0.040	0.015	8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>			<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	88.4		%	29 - 112			8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B
Fluoranthene-d10 (S)	94.2		%	45 - 130			8270 SIM	5/31/16 LEH	6/2/16 18:11	CGS	B

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



ANALYTICAL RESULTS

Workorder: 2146758 PQF011|Ft. Monmouth GW Smpling

Lab ID: **2146758007**
Sample ID: **490MW01-19.5**

Date Collected: 5/25/2016 15:45 Matrix: Water
Date Received: 5/26/2016 09:14

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr

Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2146758002	1	M16MW02-14.5	SW846 8260C	1,1-Dichloroethene

The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,1-Dichloroethene. The % Recovery was reported as 133 and the control limits were 71 to 131.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

