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January 15, 2019

Mr. Greg Cassidy, Brownfields Project Manager
South Carolina Department of Health and Environmental Control
Division of Site Assessment, Remediation, and Revitalization
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

RECEIVED

JAN 16 2019

Subject: Quarterly Progress Report-Fourth Quarter 2018
Former Bramlette Manufactured Gas Plant
400 East Bramlette Road
Greenville, South Carolina
VCC 16-5857-RP

**SITE ASSESSMENT,
REMEDIATION &
REVITALIZATION**

Dear Mr. Cassidy:

This Quarterly Progress Report has been prepared for the referenced site in accordance with the requirements of the Responsible Party Voluntary Cleanup Contract (VCC 16-5857-RP) between Duke Energy Carolinas (Duke Energy) and the South Carolina Department of Health and Environmental Control (SCDHEC), dated July 29, 2016.

The following sections provide a summary of work performed during the reporting period, work to be performed during the next reporting period, a summary of test or sampling results generated during the reporting period, and environmental problems experienced during the reporting period and their resolution. The work was conducted in accordance with the April 13, 2018 Remedial Investigation Work Plan Addendum (RIWP-A) submitted by Duke Energy and approved by the SCDHEC on April 24, 2018.

A summary of findings based on the results of the work is provided below:

- Volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) were not detected at concentrations exceeding the laboratory reporting limits (RLs) in groundwater samples collected from newly installed monitoring wells MW-30S, MW-31S, and MW-31TZ (located along the Swamp Rabbit trail near the east bank of the Reedy River). The RLs were below the applicable comparative standards or screening levels as defined in the RIWP-A.
- VOCs and SVOCs were not detected at concentrations exceeding the RLs in surface water samples (SW-7 through SW-12) collected from the Reedy River. The RLs were below the applicable comparative standards or screening levels as defined in the RIWP-A.
- VOCs were not detected at concentrations exceeding the RLs in sediment samples (SW-7-SED through SW-12-SED) collected from the Reedy River. The RLs were below the applicable comparative standards or screening levels as defined in the RIWP-A.
- Limited detections of SVOCs were reported in sediment samples SW-7-SED and SW-12-SED (and Duplicate Sample SW-DUP 1-SED) at concentrations exceeding the RLs. However, the specific compounds detected do not have a comparative standard or

screening level and will be addressed in the Risk Assessment and Groundwater Remedial Investigation (RI) Report. These compounds are commonly found in environmental media at industrial facilities. Potential source(s) of these compounds will be further evaluated during the ongoing Groundwater RI. Remaining SVOC concentrations were below the RLS, and The RLs were below the applicable comparative standards or screening levels as defined in the RIWP-A.

Work Performed During the Reporting Period

Activities performed during the fourth quarter (October 1 through December 31, 2018) were conducted in accordance with the RIWP-A and included the following:

- From October 9 through 11, 2018, monitoring wells MW-31S and MW-31TZ were installed and developed along the Swamp Rabbit Trail near the east bank of the Reedy River (Attachment A, Figure 1) using a mini-sonic rig.
- On October 24, 2018, four drums of non-hazardous investigation derived waste (IDW) including drill cuttings (two drums) and decontamination fluids and development water (two drums) were removed from the site by VLS Recovery Services (VLS) for proper off-site disposal. The manifest is provided in Attachment B.
- On December 4 and 5, 2018, monitoring well MW-30S was installed and developed along the Swamp Rabbit Trail near the east bank of the Reedy River (Attachment A, Figure 1) using a direct-push rig equipped with hollow-stem augers. The lighter direct-push rig was used in place of the mini-sonic rig to avoid damage to the Swamp Rabbit Trail during mobilization and drilling. The direct-push rig also requires a smaller working footprint allowing safe access to the drilling location in the limited space between the Swamp Rabbit Trail and steep bank of the Reedy River. Proposed monitoring well PMW-30TZ was not installed due to equipment limitations from the change in drilling method.
- On December 11, 2018, two drums of non-hazardous IDW including drill cuttings (one drum) and decontamination fluids and development water (one drum) were removed from the site by VLS for proper off-site disposal. The manifest is provided in Attachment B.
- On December 12, 2018, groundwater samples were collected from monitoring wells MW-30S, MW-31S, and MW-31TZ for analysis of VOCs by U.S. Environmental Protection Agency (EPA) Method 8260 and SVOCs by EPA Method 8270.
- On December 13, 2018, two drums of non-hazardous IDW consisting of decontamination fluids and purge water were removed from the site by VLS for proper off-site disposal.
- On December 12, 2018, slug tests were conducted on monitoring wells MW-30S, MW-31S, and MW-31TZ in accordance with ASTM International D4044.
- On December 14, 2018, Revision No. 2 of the site-specific Health and Safety Plan (HASP), which was updated to include the next phase of work, was submitted to the SCDHEC.
- On December 19, 2018, surface water samples SW-7 through SW-12 were collected from the Reedy River (Attachment A, Figure 2) for analysis of VOCs by EPA Method 8260 and SVOCs by EPA Method 8270.

- On December 19, 2018, sediment samples SW-7-SED through SW-12-SED were collected from the Reedy River (Attachment A, Figure 2) at the same locations as surface water samples SW-7 through SW-12 for analysis of VOCs by EPA Method 8260 and SVOCs by EPA Method 8270.
- On December 21, 2018, the location and elevation of monitor wells MW-30S, MW-31S, and MW-31TZ were surveyed relative to the North American Vertical Datum (NAVD 1988).
- On December 21, 2018, water level transducers/data loggers were installed in monitoring wells MW-13R (shallow), MW-26 (bedrock), MW-27 (saprolite), MW-31S, and MW-31TZ (Attachment A, Figure 1) to monitor changes in water levels over time.
- On January 7, 2019, water level data was downloaded from transducers/data loggers. Although this activity occurred outside the fourth quarter 2018 reporting period, the download included data from within the reporting period and has been included in this report for completeness.

Work to be Performed During the Next Reporting Period (First Quarter 2019)

The following activities are tentatively scheduled to be conducted in accordance with Section 4 of the RIWP-A during the first quarter (January 1 through March 31, 2019). The proposed schedule is subject to change based on weather conditions, access to the Vaughn Landfill, availability of subcontractors, materials, and/or equipment, and other unforeseen delays. Field work notifications will be provided in accordance with the VCC and access agreements prior to initiating each phase of the work.

- Vegetation clearing to support monitor well installation and abandonment, non-aqueous phase liquid (NAPL) assessment, and groundwater, surface water, and sheen sampling – February 2019
- Ground penetrating radar (GPR) and electromagnetic (EM) survey to identify potential subsurface utilities at the drilling locations – February 2019
- Install and develop monitoring wells PMW-29S (shallow) and PMW-29TZ (transition zone) on the north side of Bramlette Road in Parcel 2 (Attachment A, Figure 1) and monitoring well PMW-32B (bedrock) in the Vaughn Landfill on Parcel 3 adjacent to existing monitoring wells MW-3 and MW-20 (Attachment A, Figure 1) –February 2019
- Abandon monitoring wells MW-3D, MW-6A, MW-19, MW-23, and MW-24 in accordance with South Carolina Well Standards R. 61-71(Attachment A, Figure 1) - February 2019
- Install three staff gages within the surface water adjacent to the Vaughn Landfill on Parcel 3 (Attachment A, Figure 1) - February 2019
- Conduct NAPL assessment (Attachment A, Figure 10) February and March 2019
- Survey location and elevation of monitoring wells, staff gages, and soil borings upon completion of the drilling program – March 2019
- Slug testing of newly installed monitor wells, comprehensive (site-wide) groundwater monitoring event, surface water and sediment sampling within the Vaughn Landfill, and sheen inspection and sampling - March 2019
- IDW disposal – Weekly pickup during drilling program and at completion of sampling program

- Download and monitor water level transducers/data loggers and Reedy River stage from a United States Geological Survey (USGS) stream gaging station located downstream of the site - Monthly

Summary of Test or Sampling Results Generated During Reporting Period

A summary of the test and sampling results for work performed during the fourth quarter (October 1 through December 31, 2018) is provided below:

- Construction details for monitoring wells MW-30S, MW-31S, and MW-31TZ are listed in Table 1 (Attachment C). The well permit, geologist logs, and Water Well Records (Form 1903) are provided in Attachment D.
- Slug test data for monitoring wells MW-30S, MW-31S, and MW-31TZ were analyzed using AQTESOLV™, and the results are provided in Attachment E. Geometric Mean hydraulic conductivity values of the shallow zone range from to approximately 7 ft/day (0.0025 cm/sec) at monitoring well MW-31S to 16 ft/day (0.0056 cm/sec) at monitoring well MW-30S. The Geometric Mean hydraulic conductivity values of transition zone monitoring well MW-31TZ is approximately 0.5 ft/day (0.00018 cm/sec).
- VOCs and SVOCs were not detected at concentrations exceeding the RLs in groundwater samples collected from monitoring wells MW-30S, MW-31S, and MW-31TZ. The RLs were below the applicable comparative standards or screening levels as defined in the RIWP-A. The analytical laboratory report is provided in Attachment F. The data have been reviewed for quality and completeness and approved for release by Pace Analytical. Full data validation in accordance with Section 6 of the September 2018 Quality Assurance Project Plan (QAPP) will be conducted prior to submittal of the Groundwater RI Report.
- VOCs and SVOCs were not detected at concentrations exceeding the RLs in surface water samples SW-7 through SW-12. The RLs were below applicable comparative standards or screening levels as defined in the RIWP-A. The analytical laboratory report is provided in Attachment F. The data have been reviewed for quality and completeness and approved for release by Pace Analytical. Full data validation in accordance with Section 6 of the QAPP will be conducted prior to submittal of the Groundwater RI Report.
- A summary of the analyses results for sediment samples SW-7-SED through SW-12-SED is listed in Table 2 (Attachment C). VOCs and SVOCs were not detected at concentrations exceeding the applicable standards or screening levels as defined in the RIWP-A. The analytical laboratory report is provided in Attachment F. The data have been reviewed for quality and completeness and approved for release by Pace Analytical. Full data validation in accordance with Section 6 of the QAPP will be conducted prior to submittal of the Groundwater RI Report.
- Time series hydrographs from December 21, 2018 through January 7, 2019 for the data downloaded from the data loggers in monitoring wells MW-13R (shallow), MW-26 (bedrock), MW-27 (saprolite), which are located on the former MGP site on Parcel 1 (Attachment A, Figure 1), and a USGS stream gaging station located downstream of the site are provided in Attachment G. Time series hydrographs from December 21, 2018 through January 7, 2019 for the data downloaded from the data loggers in monitoring wells MW-31S, and MW-31TZ, which are located along the Swamp Rabbit Trail near the east bank of the Reedy River (Attachment A, Figure 1), and a USGS stream gaging

station located downstream of the site also are provided in Attachment G. The river stage fluctuated approximately four feet during the period of record. Water levels in the monitoring wells located on the former MGP site fluctuated approximately 0.5 feet during the same time period and appear to respond to fluctuations in river stage within one to two days. Water levels in the monitoring wells located along the Swamp Rabbit Trail near the east bank of the Reedy River fluctuated approximately three to 3.5 feet during the period of record and appear to respond to fluctuations in river stage in less than one day.

Environmental Problems Identified During Reporting Period and Their Resolution

- While beyond the reporting period of this document, Duke Energy, SynTerra, and CSXT Security personnel conducted a site visit on January 11, 2019. Based on observed conditions, CSXT will remove trespassers and clean up the area prior to initiating the vegetation clearing and work described in the RIWP-A. Therefore, the projected start date for the field program has been postponed until early- to mid-February 2019. Field work notifications will be provided in accordance with the VCC and access agreements prior to initiating each phase of the work.

If you have any questions regarding this submittal, please contact me at 980.373.2663 or by email at Richard.Powell2@duke-energy.com.

Sincerely,

Richard E. Powell

Richard E. Powell, P.G.
Senior Environmental Specialist

cc: Kevin Boland, CSXT
Daniel Schmitt, Esq., CSXT
Ty Houck, Greenville County
Todd Plating, SynTerra

Enclosures:

Attachment A - Figures

Figure 1 – Proposed Work Plan Activities

Figure 2 – Proposed Sediment/Surface Water Samples

Attachment B - IDW Manifests

Attachment C - Tables

Table 1 - Construction Details for Newly Installed Monitoring Wells

Table 2 - Summary of Analytical Results for Sediment Samples

Attachment D - Monitoring Well Records

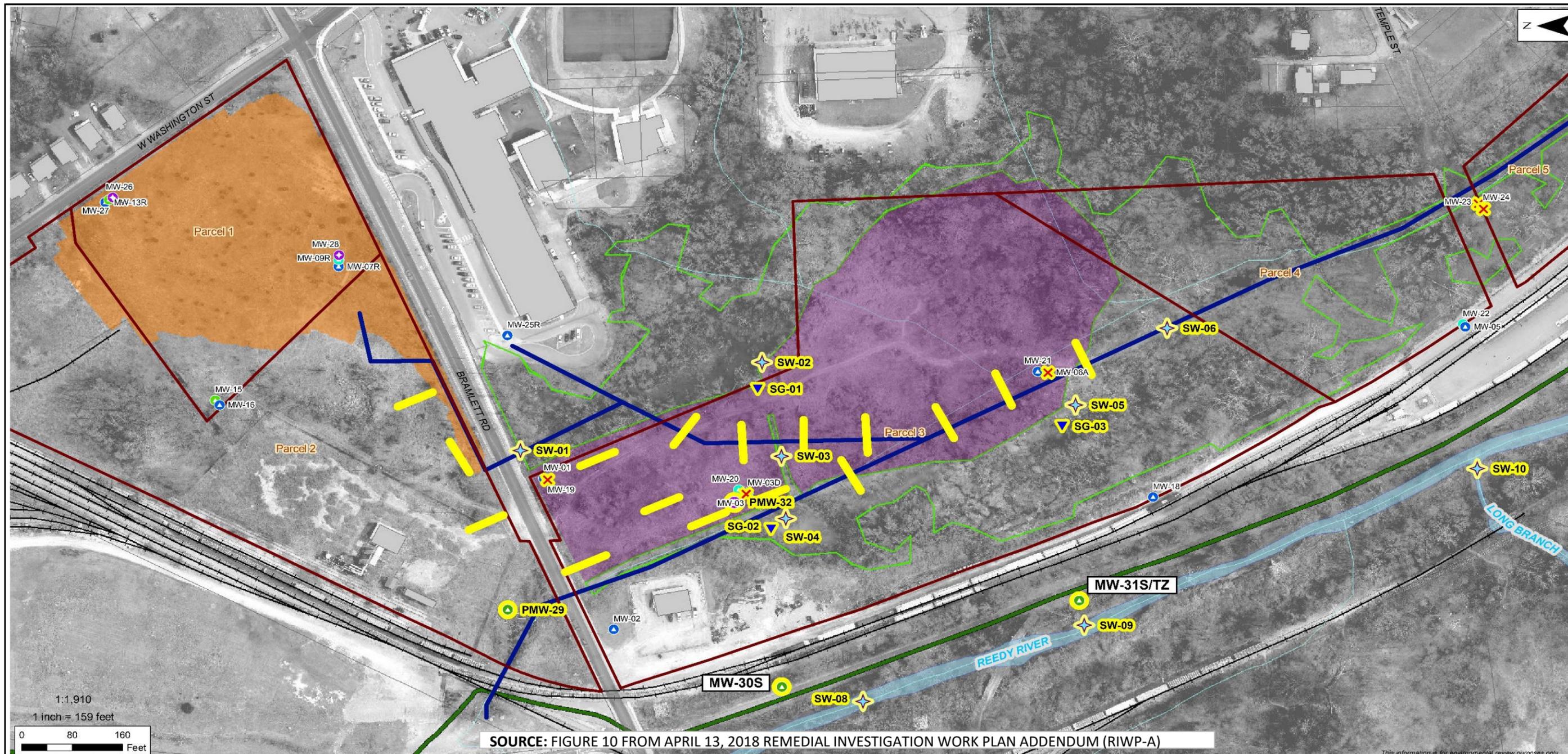
Attachment E - Slug Test Data Analysis

Attachment F - Analytical Laboratory Reports

Attachment G - Hydrographs

ATTACHMENT A

Figures



SOURCE: FIGURE 10 FROM APRIL 13, 2018 REMEDIAL INVESTIGATION WORK PLAN ADDENDUM (RIWP-A)

This information is for environmental review purposes only.

- | | | | |
|---|----------------------------------|----------------|-------------------------------|
| Former Drainage Ditch | Proposed Locations | Shallow | Shallow & Saprolite Well Pair |
| Excavated Area (2001-2002) | Surface Water / Sediment Samples | Mid Saprolite | Bedrock Well |
| Approximate Vaughn Landfill Boundary | Stream Gauge | Deep Saprolite | Proposed Well to Abandon |
| Proposed Boring Transect (3 borings each) | | Bedrock | |

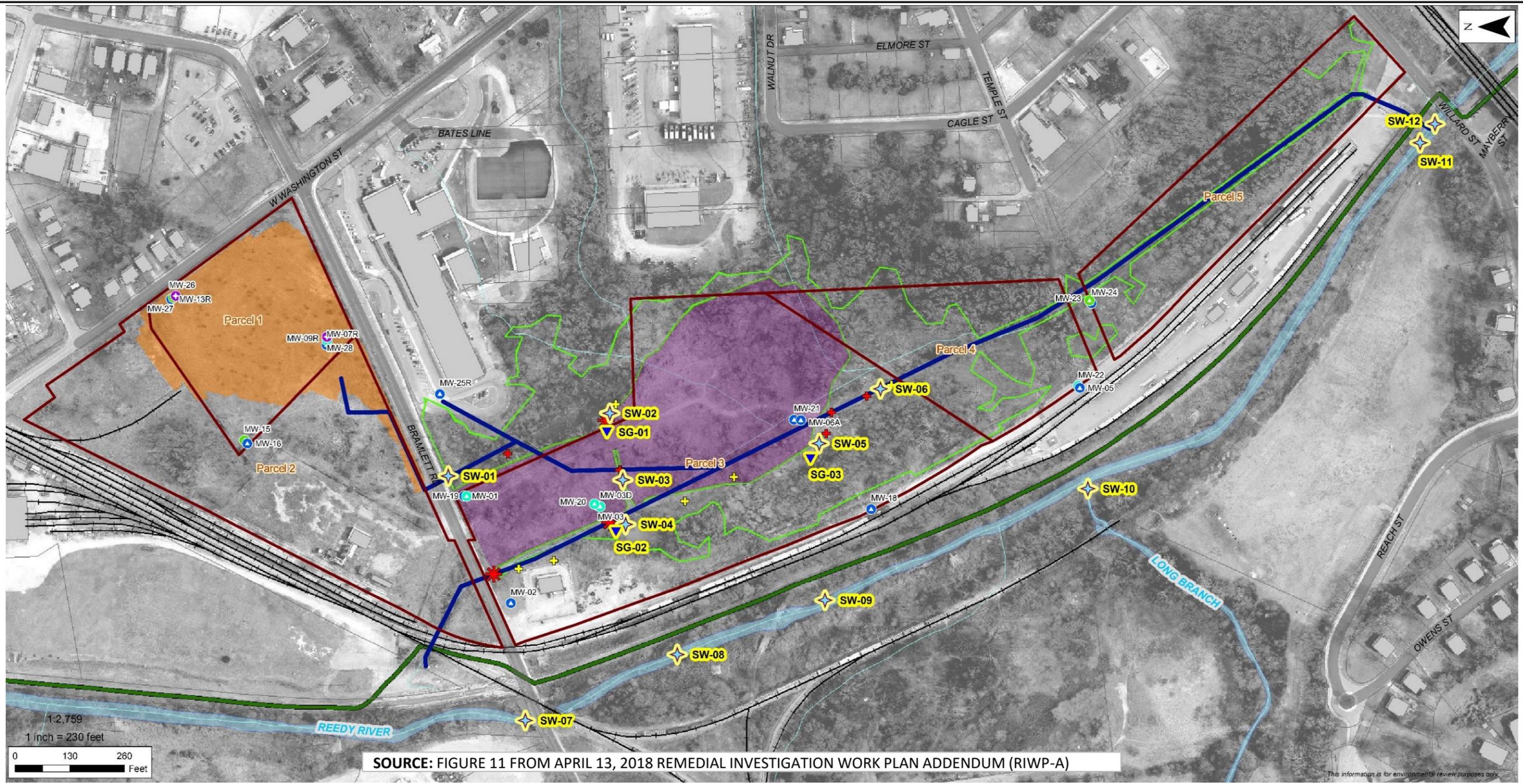


148 RIVER STREET, SUITE 220
GREENVILLE, SOUTH CAROLINA 29601
PHONE (864) 421-9999
<http://www.synterracorp.com>

DRAWN BY: H. Frank Date: 1/10/2019
PROJECT MANAGER: Todd Plating

1/14/2019 C:\Users\MMASTB-1\AppData\Local\Temp\A_Figure 10 and 11

FIGURE 1
PROPOSED WORK PLAN ACTIVITIES
FORMER DUKE ENERGY MGP SITE
EAST BRAMLETTE ROAD
GREENVILLE, SOUTH CAROLINA



SOURCE: FIGURE 11 FROM APRIL 13, 2018 REMEDIAL INVESTIGATION WORK PLAN ADDENDUM (RIWP-A)

- | | | | |
|---|---|---|--|
| <ul style="list-style-type: none"> — Former Drainage Ditch Excavated Area (2001-2002) Approximate Vaughn Landfill Boundary | <ul style="list-style-type: none"> * Surface water sheen (12/2017) + 1995-1996 Sediment Sample + 1995-1996 Sediment Sample with visible coal tar | <p>Proposed Locations</p> <ul style="list-style-type: none"> ★ Surface Water / Sediment Samples ▼ Stream Gauge | <ul style="list-style-type: none"> ▲ Shallow ● Mid Saprolite ● Deep Saprolite ● Bedrock |
|---|---|---|--|



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DRAWN BY: H. Frank Date: 1/10/2019
 PROJECT MANAGER: Todd Plating

1/14/2019 C:\Users\MMASTB-1\AppData\Local\Temp\A_Figure 10 and 11

FIGURE 2
PROPOSED SEDIMENT/SURFACE WATER SAMPLES
FORMER DUKE ENERGY MGP SITE
EAST BRAMLETTE ROAD
GREENVILLE, SOUTH CAROLINA

ATTACHMENT B

IDW Manifests



NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number <i>VES31201010</i>
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5. Generator's Name and Mailing Address	Generator's Site Address (if different than mailing address)
Duke Energy - Anchor QEA 400 W Bramlette Rd Greenville, SC, SC 29601	
Generator's Phone:	

6. Transporter 1 Company Name <i>NuEarth, LLC</i>	U.S. EPA ID Number <i>SCR000779454</i>
--	---

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address <i>VLS Recovery Services, LLC 305 S Main St Mauldin, SC 29652</i>	U.S. EPA ID Number <i>SCR000762468</i>
Facility's Phone: <i>854-962-9953</i>	

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. <i>Non-Hazardous Non-Regulated Profile# 22500 Soil Cuttings</i>	<i>2</i>	<i>DM</i>			
2. <i>Non-Hazardous Non-Regulated Profile# 22501 Purge Water</i>	<i>2</i>	<i>DM</i>			
3.					
4.					

13. Special Handling Instructions and Additional Information <i>Wednesday, 10/24/2016 Contact: Tom King 803.429.3558</i>

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name <i>Tom King</i>	Signature <i>[Signature]</i>	Month <i>10</i>	Day <i>27</i>	Year <i>16</i>
---	---------------------------------	--------------------	------------------	-------------------

15. International Shipments	<input type="checkbox"/> Import to U.S.	<input type="checkbox"/> Export from U.S.	Port of entry/exit:
Transporter Signature (for exports only):		Date leaving U.S.:	

16. Transporter Acknowledgment of Receipt of Materials	Signature <i>Matthew Barber</i>	Month <i>10</i>	Day <i>27</i>	Year <i>16</i>
--	------------------------------------	--------------------	------------------	-------------------

Transporter 1 Printed/Typed Name <i>Matthew Barber</i>	Signature	Month	Day	Year
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

17. Discrepancy

17a. Discrepancy Indication Space	<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection
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Manifest Reference Number:

17b. Alternate Facility (or Generator)	U.S. EPA ID Number
Facility's Phone:	

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year
---	-------	-----	------



18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name	Signature	Month	Day	Year
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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number <i>134119ASE</i>	
5. Generator's Name and Mailing Address Duke Energy Carolinas, LLC. 400 East Bramlett Rd Greenville, SC 29601		Generator's Site Address (if different than mailing address) c/o Symara			
Generator's Phone:		U.S. EPA ID Number <i>SCR000762468</i>			
6. Transporter 1 Company Name <i>VLS Recovery Services</i>		U.S. EPA ID Number			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address VLS Recovery Services, LLC 305 S Main St Mauldin, SC 29662		U.S. EPA ID Number <i>SCR000762468</i>			
Facility's Phone: <i>864.980.9953</i>					
GENERATOR	9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
	1. Non-Hazardous Non-Regulated Profile# 25038 Soil Cuttings	1	DM	<i>250</i>	<i>P</i>
	2. Non-Hazardous Non-Regulated Profile# 25039 Groundwater & Decontamination Water	1	DM	<i>250</i>	<i>P</i>
	3. Non-Hazardous Non-Regulated Profile# 25038 Soil Cuttings <i>SPI</i>				
4.					
13. Special Handling Instructions and Additional Information Friday, 12.07.2018 Contact: Rick Powell 980.373.2663					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offeror's Printed/Typed Name <i>Tom King</i>			Signature <i>Tom King</i>		Month Day Year <i>12 11 18</i>
INT'L	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: _____ Date leaving U.S.: _____		
	Transporter Signature (for exports only):				
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials		Signature		Month Day Year
	Transporter 1 Printed/Typed Name <i>Shane C. Flanagan</i>		<i>Shane C. Flanagan</i>		<i>12 11 18</i>
	Transporter 2 Printed/Typed Name		Signature		Month Day Year
DESIGNATED FACILITY	17. Discrepancy				
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
	Manifest Reference Number: _____				
	17b. Alternate Facility (or Generator)		U.S. EPA ID Number		
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)		Signature		Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name			Signature		Month Day Year



NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
-------------------------------------	------------------------	--------------	-----------------------------	--------------------------

5. Generator's Name and Mailing Address Duke Energy Carolina, LLC 400 East Grand St Greenville, SC 29601	Generator's Site Address (if different than mailing address) oro Systems
Generator's Phone:	

6. Transporter 1 Company Name LS Recovery Services	U.S. EPA ID Number SCR000762485
---	------------------------------------

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address LS Recovery Services, LLC 205 S Main St Mauldin, SC 29662 654 620-2263	U.S. EPA ID Number SCR000762485
Facility's Phone:	

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1.				
2. Non-Hazardous Non-Regulated Prolife/ 25039 Groundwater 3, Decontamination Water	2	Pak 2		
3.				
4.				

13. Special Handling Instructions and Additional Information Contact: Brian (803) 433 5883

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name	Signature	Month	Day	Year
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15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit:
Transporter Signature (for exports only):	Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials	Signature	Month	Day	Year
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Transporter 2 Printed/Typed Name	Signature	Month	Day	Year
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17. Discrepancy

17a. Discrepancy Indication Space	<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection
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Manifest Reference Number:

17b. Alternate Facility (or Generator)	U.S. EPA ID Number
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Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year
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18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year
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ATTACHMENT C

Tables

Table 1

Construction Details for Newly Installed Monitoring Wells

Quarterly Progress Report - Fourth Quarter 2018
Former Bramlette Manufactured Gas Plant
Greenville, South Carolina
VCC 16-5857-RP

Monitoring Well ID	Owner/Parcel	Monitoring Zone	Date(s) Installed	Material	Diameter (inches)	Surface Casing (Feet-BGS)	Latitude	Longitude	Measuring Point TOC Elevation (Feet- NAVD)	Ground Surface Elevation (Feet- NAVD)	Total Well Depth (Feet-BGS)	Screened Interval (Feet-BGS)
MW-30S	Greenville County/ Swamp Rabbit Trail	Residuum/ Saprolite	12/4 - 12/5/2018	PVC	2	NA	34.859963	-82.420715	932.60	932.84	19.9	4.9 - 19.9
MW-31S	Greenville County/ Swamp Rabbit Trail	Residuum/ Saprolite	10/10 - 10/11/2018	PVC	2	NA	34.858685	-82.420131	932.11	932.51	20	5 - 20
MW-31TZ	Greenville County/ Swamp Rabbit Trail	Transition Zone/ Top of Bedrock	10/9 - 10/10/2018	PVC	2	NA	34.858727	-82.420048	932.07	932.37	38	28 - 38

Prepared by: ALL

Checked by: MSM

Notes:

BGS = Below ground surface

BTOC = Below Top of casing

NAVD = North American Vertical Datum (1988)

NA = Not Applicable

Table 2

**Summary of Analytical Laboratory Results for Sediment Samples
Collected from the Reedy River**

Quarterly Progress Report - Fourth Quarter 2018
Former Bramlette Manufactured Gas Plant
Greenville, South Carolina
VCC 16-5857-RP

Sample ID	Date	Method/Constituent						
		EPA 8270D (micrograms per kilogram [µg/kg])						
		Reporting Limit (RL)	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Chrysene	Fluoranthene	Pyrene
SW-7-SED	12/19/2018	451	ND	ND	ND	ND	ND	ND
SW-8-SED	12/19/2018	420	ND	ND	ND	ND	ND	ND
SW-9-SED	12/19/2018	423	ND	ND	ND	ND	ND	ND
SW-10-SED	12/19/2018	420	ND	ND	ND	ND	ND	ND
SW-11-SED	12/19/2018	449	ND	ND	ND	ND	ND	ND
SW-12-SED MS/MSD	12/19/2018	411	503	435	562	490	822	791
SW-DUP 1-SED	12/19/2018	419	ND	ND	ND	ND	ND	ND

Prepared by: ALL

Checked by: MSM

Notes:

ND = Not Detected at concentration exceeding the laboratory reporting limit.

ATTACHMENT D

Monitoring Well Records



July 19, 2018

Richard Powell
Duke Energy Carolinas
526 S Church St
Charlotte NC 28202

RE: CSXT Bramlette Road Site
SCDHEC Monitoring Well Approval MW-11615
Greenville County

Dear Mr. Powell:

The Division of Site Assessment, Remediation and Revitalization has reviewed the request to install up to 8 permanent groundwater monitoring wells at the CSXT Bramlette Road Site as described in the Monitoring Well Application received on July 18, 2018.

Based on this review, approval for installation is granted under R.61-71 of the South Carolina Well Standards and Regulations. Once data is received, a report should be sent to the Department summarizing the recent work. Should you have any questions regarding the above, you may contact me at (803) 898-0910.

Sincerely,

A handwritten signature in black ink, appearing to read "Greg Cassley", is written over the typed name.

Greg Cassley, Project Manager
State Remediation Section
Division of Site Assessment, Remediation and Revitalization
Bureau of Land and Waste Management

cc: Natalie Kirkpatrick, Upstate EA Region
Corey League, PG, ERM NC Inc., 15720 Brixham Hill Ave #120, Charlotte NC 28277
File # 400801

Monitoring Well Approval

Approval is hereby granted to: Richard Powell, Duke Energy Carolinas
Facility: CSXT Bramlette Road Site
Greenville County

This approval is for the installation of up to 8 groundwater monitoring wells. The monitoring wells are to be installed in the areas described by ERM NC Inc. and per the proposed construction details provided in the request. The monitoring wells are to be installed following all of the applicable requirements of R.61-71.

Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All wells shall be properly developed per R.61-71.H.2.d. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted within 30 days after well completion or abandonment unless the Department has approved another schedule. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
3. All analytical data and water levels obtained from each monitoring well shall be submitted to the Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
4. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
5. All soil borings points that penetrate any confining unit must be grouted in accordance with R. 61-71.
6. If any of the information provided to the Department changes, the Author (Greg Cassidy) shall be notified a minimum of twenty-four hours prior to well construction as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated May 27, 2016.

Date of Issuance: 07/19/2018

Approval #: MW-11615


Greg Cassidy, Project Manager
State Remediation Section

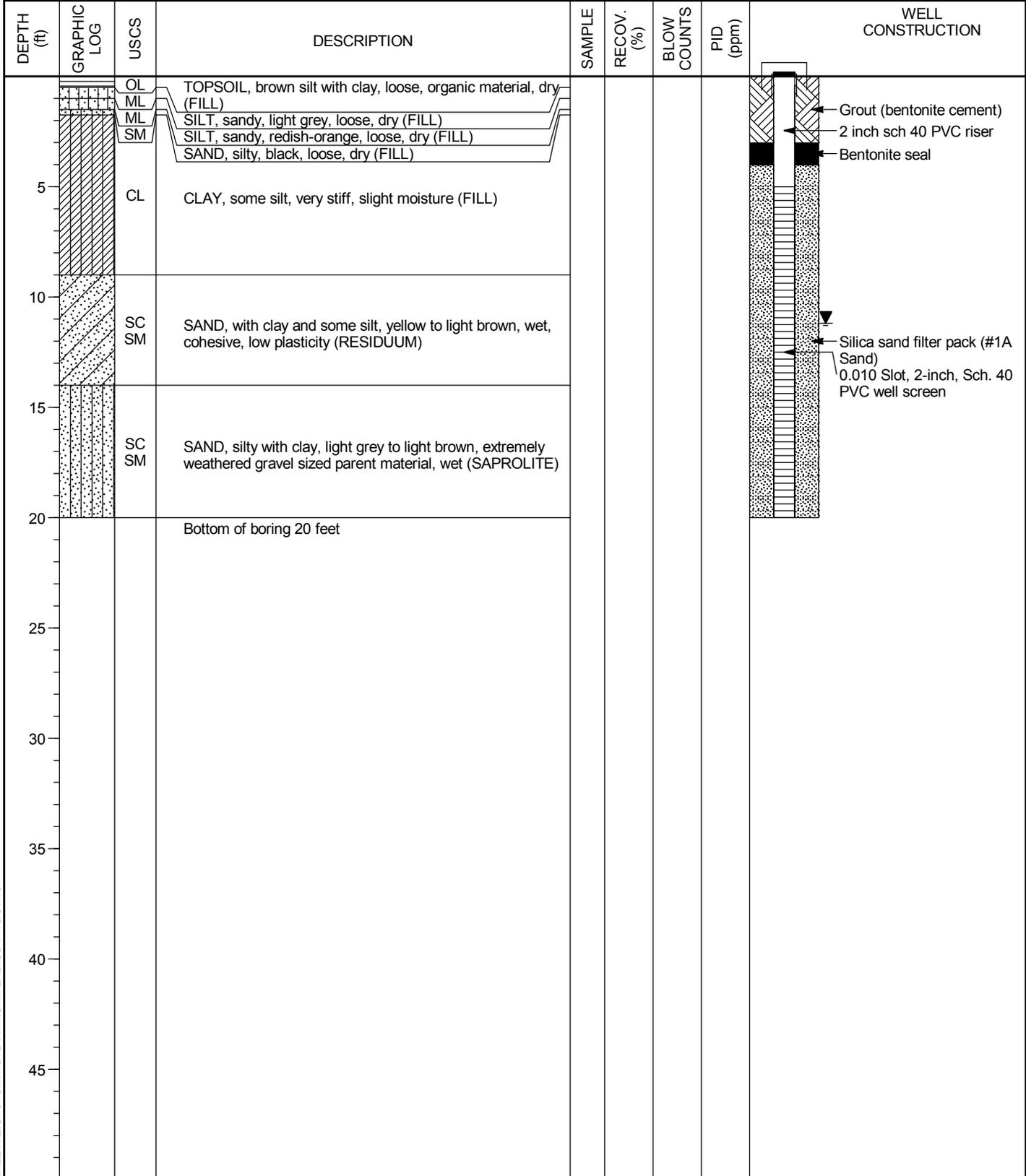
Division of Site Assessment, Remediation and Revitalization
Bureau of Land and Waste Management

PROJECT: Bramlette Road MGP Site	WELL / BORING NO: MW-30S
PROJECT NO: 1026.800	STARTED: 12/4/18 COMPLETED: 12/5/18
DRILLING COMPANY: Cascade Drilling	NORTHING: TBD EASTING: TBD
DRILLING METHOD: Hollow Stem Augers/DPT	G.S. ELEV: TBD M.P. ELEV: TBD
BOREHOLE DIAMETER: 4.25 IN	DEPTH TO WATER: 11.76 ft TOC TOTAL DEPTH: 19.9 ft BGS
NOTES: Well Permit #MW-11615	LOGGED BY: T. King CHECKED BY: H. Frank

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (%)	BLOW COUNTS	PID (ppm)	WELL CONSTRUCTION
0		SM	SAND, silty, brown, dry, organic material					<p>Grout (neat cement) 2 inch sch 40 PVC riser Bentonite seal 11.76 ft 0.010 Slot, 2-inch, Sch. 40 PVC well screen Silica sand filter pack (#2 Sand)</p>
1		ML	SILT, sandy, red-orange, mica present, moist, noncohesive (FILL)		60			
2		CL	CLAY, silty, orange, moist, noncohesive (FILL)					
3		ML	SILT, sandy, red grey, moist, noncohesive (FILL)		60			
4		CL	CLAY, silty, red, high plasticity, cohesive, moist (FILL)					
5		SM	SAND, silty, red, cohesive, low plasticity moist (RESIDUUM)		100			
10		SP	SAND, grey, non-cohesive, wet (RESIDUUM)		100			
15		SM	SAND, silty, grey to red-orange, foliation present from highly weathered parent rock, wet (SAPROLITE)					
20			Bottom of boring 20 feet					
25								
30								
35								
40								
45								

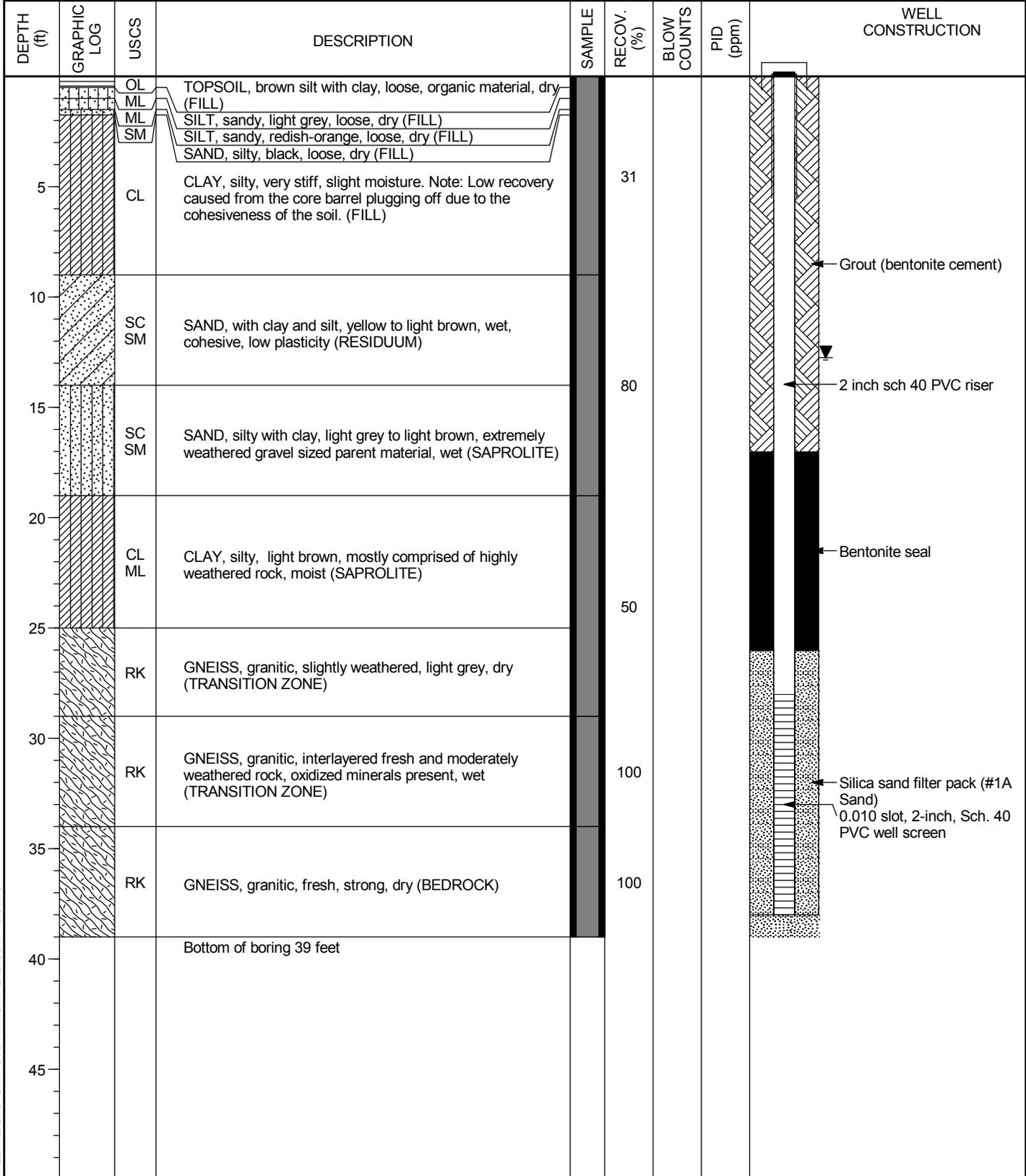
LOG.D. DEC BRAMLETTE.GPJ_GINT STD A4 ASTM LAB.GDT 12/18/18

PROJECT: Bramlette Road MGP Site	WELL / BORING NO: MW-31S
PROJECT NO: 1026.800	STARTED: 10/10/18 COMPLETED: 10/11/18
DRILLING COMPANY: Cascade Drilling	NORTHING: EASTING:
DRILLING METHOD: Rotary Sonic	G.S. ELEV: ft M.P. ELEV: ft
BOREHOLE DIAMETER: 6 IN	DEPTH TO WATER: 11.18 ft TOC TOTAL DEPTH: 20.0 ft BGS
NOTES: Well Permit #MW-11615	LOGGED BY: T. King CHECKED BY: H. Frank



LOG.D. DEC BRAMLETTE.GPJ_GINT STD A4 ASTM LAB.GDT 10/31/18

PROJECT: Bramlette Road MGP Site	WELL / BORING NO: MW-31TZ
PROJECT NO: 1026.800	STARTED: 10/9/18 COMPLETED: 10/10/18
DRILLING COMPANY: Cascade Drilling	NORTHING: EASTING:
DRILLING METHOD: Rotary Sonic	G.S. ELEV: ft M.P. ELEV: ft
BOREHOLE DIAMETER: 6 IN	DEPTH TO WATER: 12.75 ft TOC TOTAL DEPTH: 39.0 ft BGS
NOTES: Well Permit #MW-11615	LOGGED BY: T. King CHECKED BY: H. Frank



LOG.D. DEC BRAMLETTE.GPJ_GINT STD A4 ASTM LAB.GDT 10/31/18

ATTACHMENT E

Slug Test Data Analysis

**TABLE 1
HYDRAULIC CONDUCTIVITY
BRAMLETTE ROAD SITE
400 EAST BRAMLETTE ROAD
GREENVILLE, SOUTH CAROLINA
VCC 16-5857-RP**

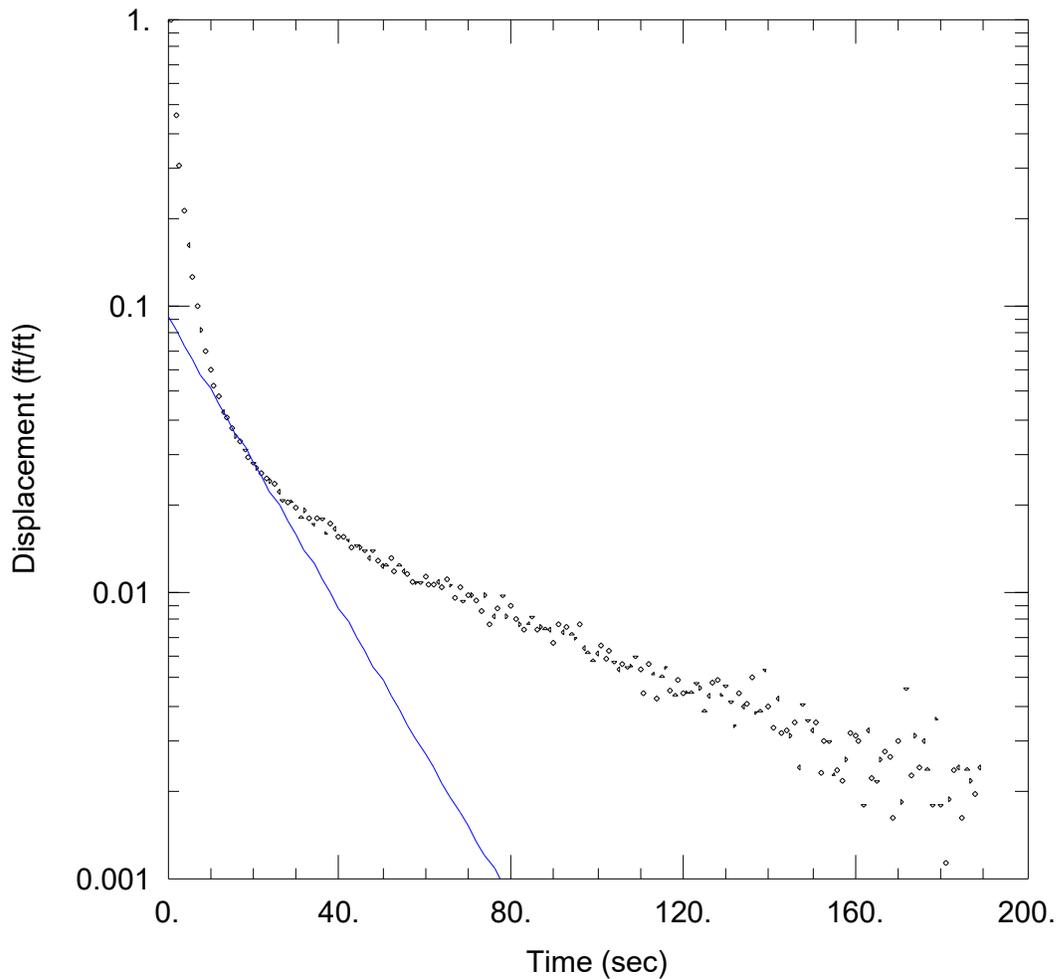
Well ID	Slug Test	Slug Test Number	Hydraulic Conductivity (cm/sec)		Hydraulic Conductivity (ft/day)	
			Measured	Geometric Mean	Measured	Geometric Mean
MW-30S ¹	Slug Out	Test 1	8.01E-03	5.74E-03	2.27E+01	1.63E+01
		Test 2	4.12E-03		1.17E+01	
MW-31S ¹	Slug Out	Test 1	4.08E-03	2.43E-03	1.16E+01	6.88E+00
		Test 2	1.45E-03		4.10E+00	
MW-31TZ ²	Slug Out	Test 1	2.00E-04	1.94E-04	5.67E-01	5.50E-01
		Test 2	1.88E-04		5.32E-01	
GEOMETRIC MEAN			1.39E-03		3.95E+00	
HIGHEST CONDUCTIVITY			8.01E-03		2.27E+01	
LOWEST CONDUCTIVITY			1.88E-04		5.32E-01	

Note:

¹ Slug tests were analyzed using the Bouwer-Rice mathematical model.

Prepared by: HJF

Checked by: TDP



WELL MW-30S, TEST 1

Data Set: P:\...\MW-30S Test1.aqt

Date: 01/08/19

Time: 16:03:27

PROJECT INFORMATION

Company: SynTerra

Client: DEC Bramlette Road

Project: 1026.800

Location: Greenville, SC

Test Date: December 12, 2018

AQUIFER DATA

Saturated Thickness: 22.96 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-30S)

Initial Displacement: 2.902 ft

Static Water Column Height: 8.96 ft

Total Well Penetration Depth: 8.96 ft

Screen Length: 8.96 ft

Casing Radius: 0.083 ft

Well Radius: 0.344 ft

Gravel Pack Porosity: 0.32

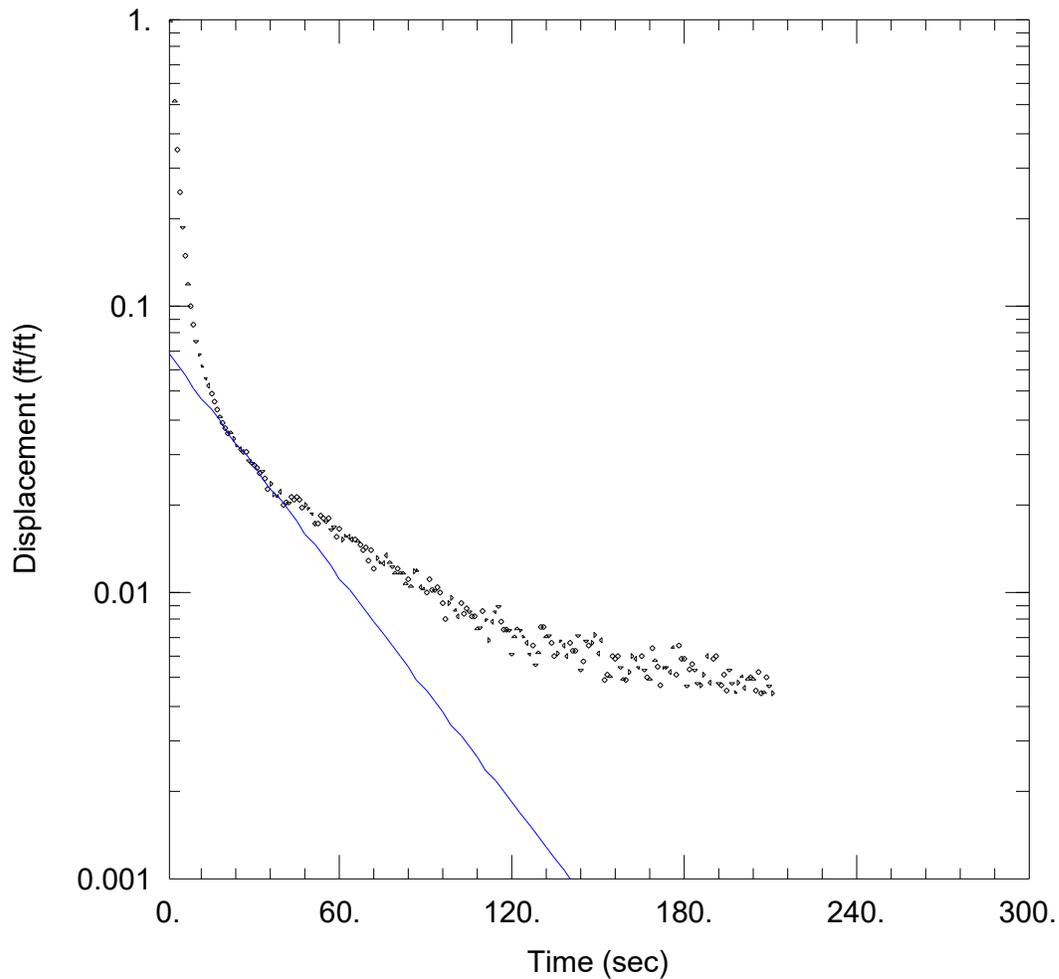
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bower-Rice

$K = 0.00801$ cm/sec

$y_0 = 0.2659$ ft



WELL MW-30S, TEST 2

Data Set: P:\...\MW-30S Test2.aqt

Date: 01/08/19

Time: 16:04:56

PROJECT INFORMATION

Company: SynTerra

Client: DEC Bramlette Road

Project: 1026.800

Location: Greenville, SC

Test Date: December 12, 2018

AQUIFER DATA

Saturated Thickness: 22.96 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-30S)

Initial Displacement: 2.628 ft

Static Water Column Height: 8.96 ft

Total Well Penetration Depth: 8.96 ft

Screen Length: 8.96 ft

Casing Radius: 0.083 ft

Well Radius: 0.344 ft

Gravel Pack Porosity: 0.32

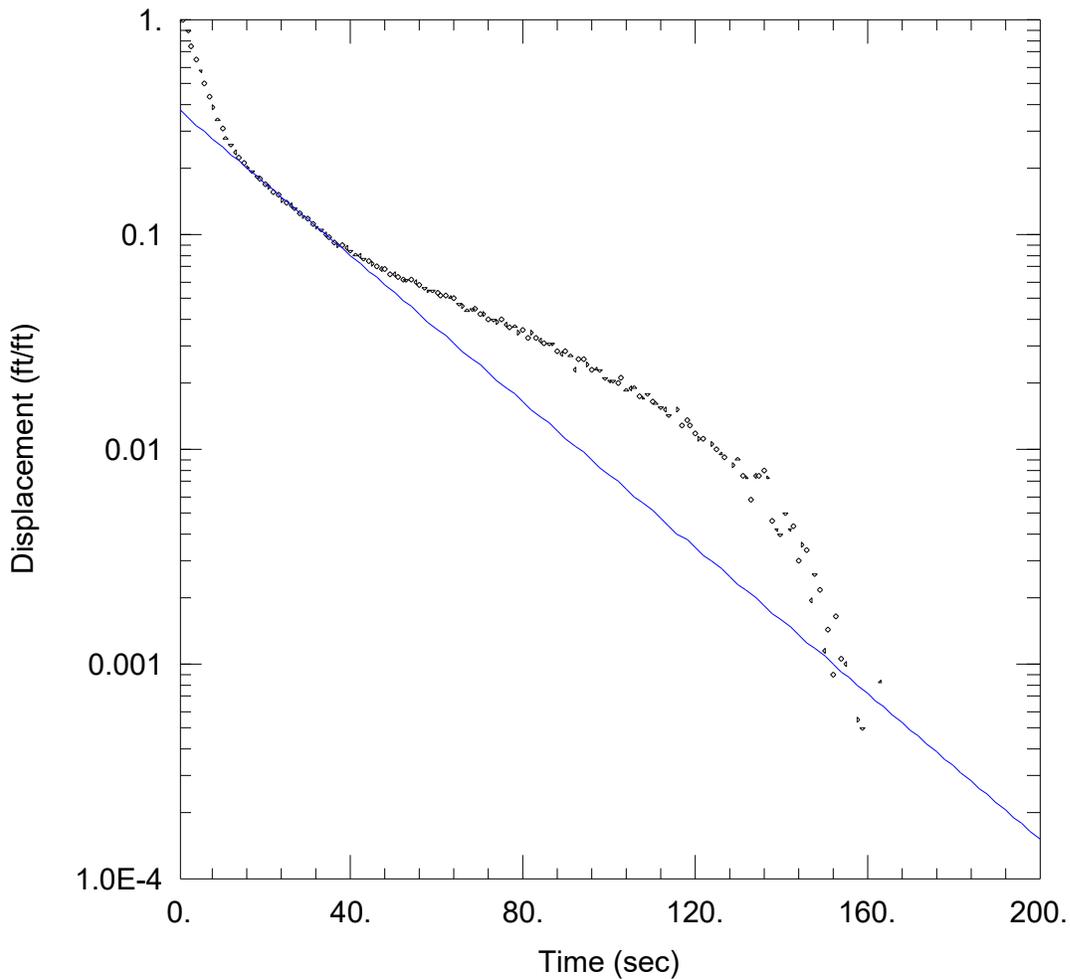
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bower-Rice

$K = 0.004118$ cm/sec

$y_0 = 0.1788$ ft



WELL MW-31S, TEST 1

Data Set: P:\...\MW-31S Test1.aqt

Date: 01/08/19

Time: 16:10:50

PROJECT INFORMATION

Company: SynTerra

Client: DEC Bramlette Road

Project: 1026.800

Location: Greenville, SC

Test Date: December 12, 2018

AQUIFER DATA

Saturated Thickness: 21.88 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-31S)

Initial Displacement: 1.811 ft

Static Water Column Height: 7.88 ft

Total Well Penetration Depth: 7.88 ft

Screen Length: 7.88 ft

Casing Radius: 0.083 ft

Well Radius: 0.276 ft

Gravel Pack Porosity: 0.32

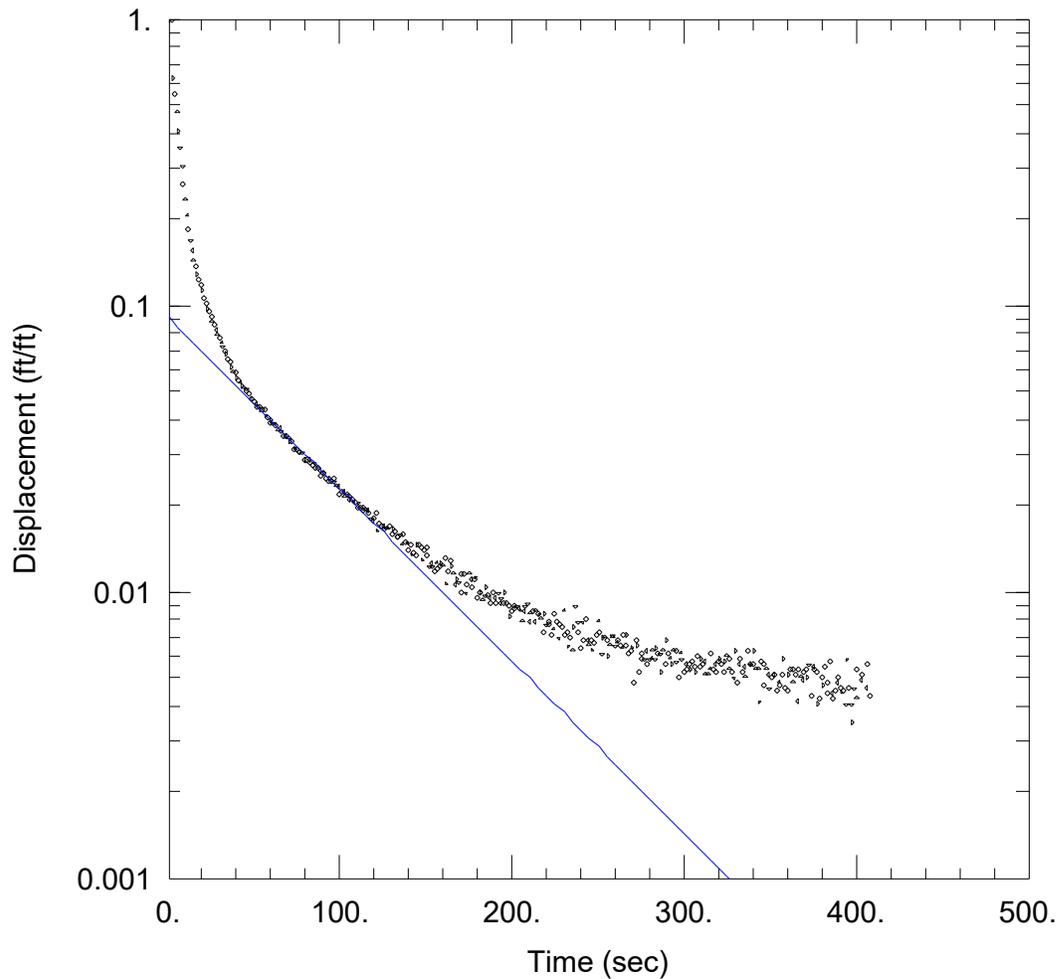
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.004078$ cm/sec

$y_0 = 0.6834$ ft



WELL MW-31S, TEST 2

Data Set: P:\...\MW-31S Test2.aqt

Date: 01/08/19

Time: 16:03:59

PROJECT INFORMATION

Company: SynTerra

Client: DEC Bramlette Road

Project: 1026.800

Location: Greenville, SC

Test Date: December 12, 2018

AQUIFER DATA

Saturated Thickness: 22.83 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-31S)

Initial Displacement: 3.097 ft

Static Water Column Height: 7.83 ft

Total Well Penetration Depth: 7.83 ft

Screen Length: 7.83 ft

Casing Radius: 0.083 ft

Well Radius: 0.276 ft

Gravel Pack Porosity: 0.32

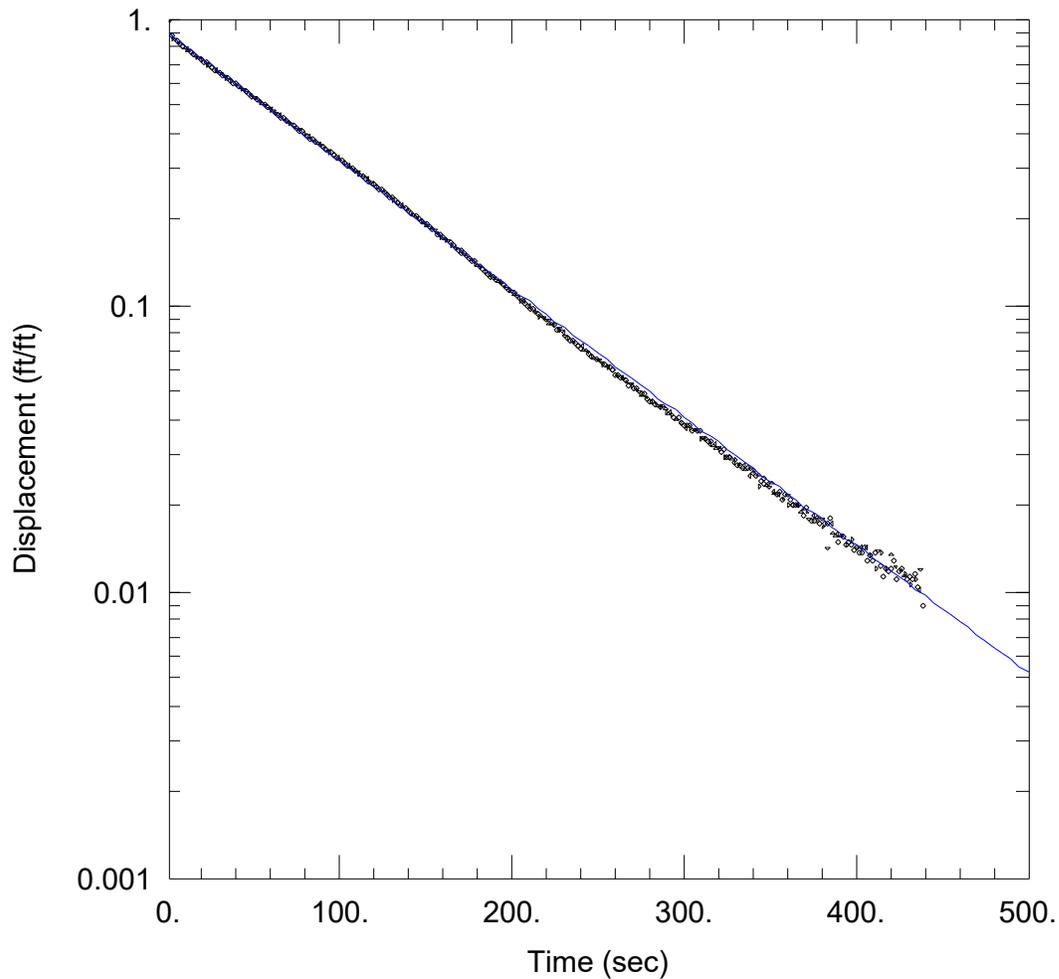
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bower-Rice

$K = 0.001446$ cm/sec

$y_0 = 0.2814$ ft



WELL MW-31TZ, TEST 1

Data Set: P:\...\MW-31TZ_Test1.aqt

Date: 01/08/19

Time: 16:17:38

PROJECT INFORMATION

Company: SynTerra

Client: DEC Bramlette Road

Project: 1026.800

Location: Greenville, SC

Test Date: December 12, 2018

AQUIFER DATA

Saturated Thickness: 21.26 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-31TZ)

Initial Displacement: 2.639 ft

Static Water Column Height: 26.26 ft

Total Well Penetration Depth: 26.26 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.276 ft

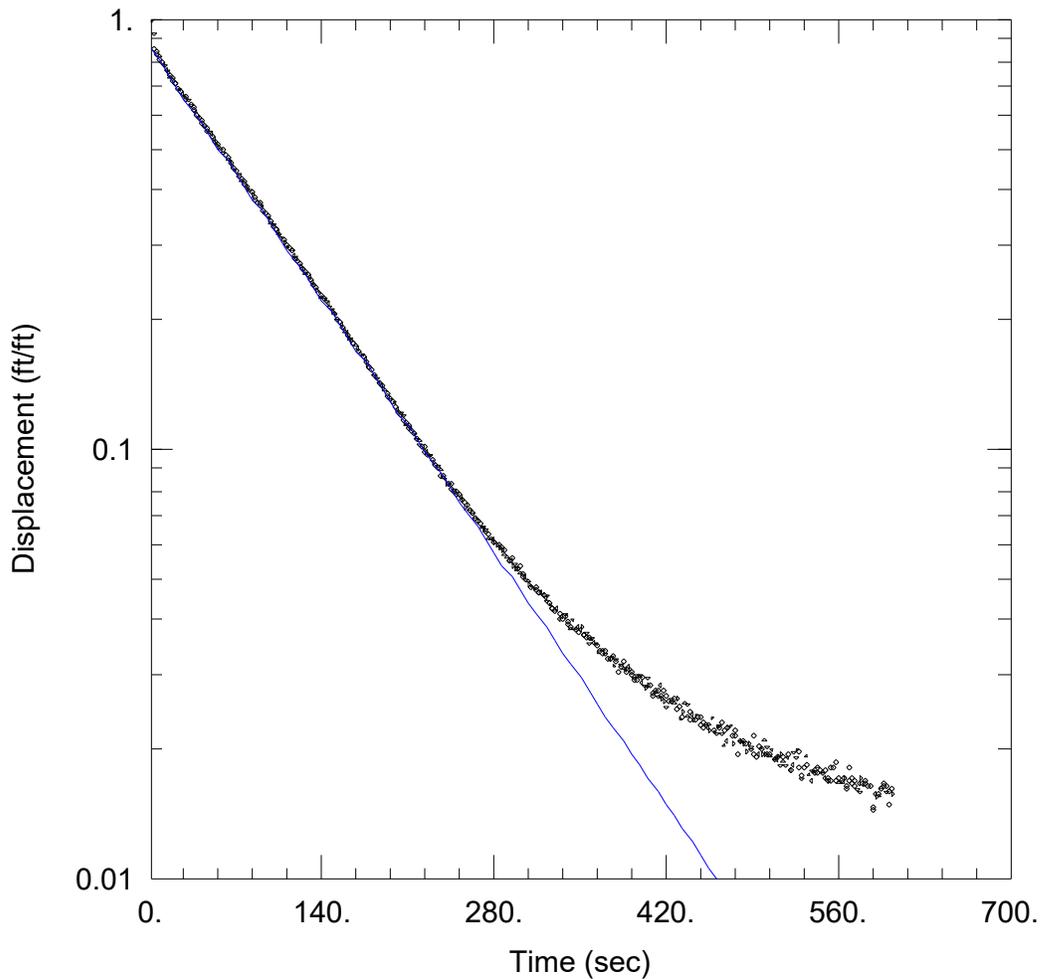
SOLUTION

Aquifer Model: Unconfined

Solution Method: Hvorslev

$K = 0.0002001$ cm/sec

$y_0 = 2.357$ ft



WELL MW-31TZ, TEST 2

Data Set: P:\...\MW-31TZ_Test2.aqt

Date: 01/08/19

Time: 16:16:44

PROJECT INFORMATION

Company: SynTerra

Client: DEC Bramlette Road

Project: 1026.800

Location: Greenville, SC

Test Date: December 12, 2018

AQUIFER DATA

Saturated Thickness: 21.34 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-31TZ)

Initial Displacement: 2.637 ft

Static Water Column Height: 26.34 ft

Total Well Penetration Depth: 26.34 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.276 ft

SOLUTION

Aquifer Model: Unconfined

Solution Method: Hvorslev

$K = 0.0001878$ cm/sec

$y_0 = 2.26$ ft

ATTACHMENT F

Analytical Laboratory Reports

January 08, 2019

Program Manager
Duke Energy
13339 Hagers Ferry Road
Bldg. 7405 MG30A2
Huntersville, NC 28078

RE: Project: FORMER BRAMLETTE MGP J18120357
Pace Project No.: 92410726

Dear Program Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Program Manager, Duke Energy
Mike Mastbaum
Todd Plating, Synterra
Rick Powell
B. Russo
Heather Smith



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92410726001	MW-30S	Water	12/12/18 14:10	12/13/18 13:10
92410726002	MW-30S DUP	Water	12/12/18 14:10	12/13/18 13:10
92410726003	MW-31S MS/MSD	Water	12/12/18 11:53	12/13/18 13:10
92410726004	MW-31 TZ	Water	12/12/18 12:54	12/13/18 13:10
92410726005	TRIP BLANK	Water	12/12/18 12:50	12/13/18 13:10
92410726006	EQB	Water	12/12/18 14:55	12/13/18 13:10
92410726007	FB 1	Water	12/12/18 15:05	12/13/18 13:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92410726001	MW-30S	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	CL	62	PASI-C
92410726002	MW-30S DUP	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	CL	62	PASI-C
92410726003	MW-31S MS/MSD	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	CL	62	PASI-C
92410726004	MW-31 TZ	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	CL	62	PASI-C
92410726005	TRIP BLANK	EPA 8260B	GAW	62	PASI-C
92410726006	EQB	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	CL	62	PASI-C
92410726007	FB 1	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	CL	62	PASI-C

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92410726003	MW-31S MS/MSD					
EPA 8270D	Acenaphthene	2.8J	ug/L	10.0	12/18/18 16:48	
92410726004	MW-31 TZ					
EPA 8270D	2,4-Dinitrotoluene	5.3J	ug/L	10.0	12/18/18 17:16	
EPA 8260B	Naphthalene	0.38J	ug/L	1.0	12/20/18 15:36	
92410726006	EQB					
EPA 8260B	Acetone	18.6J	ug/L	25.0	12/20/18 14:14	
EPA 8260B	2-Butanone (MEK)	3.7J	ug/L	5.0	12/20/18 14:14	
EPA 8260B	2-Hexanone	0.58J	ug/L	5.0	12/20/18 14:14	
92410726007	FB 1					
EPA 8260B	Acetone	18.4J	ug/L	25.0	12/20/18 14:30	
EPA 8260B	2-Butanone (MEK)	3.6J	ug/L	5.0	12/20/18 14:30	
EPA 8260B	2-Hexanone	0.56J	ug/L	5.0	12/20/18 14:30	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J18120357
Pace Project No.: 92410726

Method: EPA 8270D
Description: 8270 MSSV Semivolatile Org SC
Client: Duke Energy
Date: January 08, 2019

General Information:

6 samples were analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 447869

S0: Surrogate recovery outside laboratory control limits.

- MW-31S MS/MSD (Lab ID: 92410726003)
- Terphenyl-d14 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 447869

1g: Comment apply to all compounds outside control limits.

- LCS (Lab ID: 2453804)
- Phenol

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Method: EPA 8270D

Description: 8270 MSSV Semivolatile Org SC

Client: Duke Energy

Date: January 08, 2019

Analyte Comments:

QC Batch: 447869

2g: Recovery did not meet 70-130% South Carolina required limits. Recovery meets method required in-house generated control limits.

- LCS (Lab ID: 2453804)
- Phenol

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Method: EPA 8260B

Description: 8260 MSV Low Level SC

Client: Duke Energy

Date: January 08, 2019

General Information:

7 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 448475

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2456445)
 - Chloromethane
 - Dichlorodifluoromethane

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 448278

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92410843011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2455475)
 - Trichlorofluoromethane

QC Batch: 448475

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92410726003

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2456446)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Method: EPA 8260B

Description: 8260 MSV Low Level SC

Client: Duke Energy

Date: January 08, 2019

QC Batch: 448475

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92410726003

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- Chloromethane
- Dichlorodifluoromethane
- MSD (Lab ID: 2456447)
- Chloromethane
- Dichlorodifluoromethane

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: MW-30S **Lab ID: 92410726001** Collected: 12/12/18 14:10 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 15:51	208-96-8	
Aniline	ND	ug/L	10.0	1.2	1	12/15/18 17:28	12/18/18 15:51	62-53-3	
Anthracene	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 15:51	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 15:51	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 15:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 15:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 15:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 15:51	207-08-9	
Benzoic Acid	ND	ug/L	50.0	5.0	1	12/15/18 17:28	12/18/18 15:51	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.1	1	12/15/18 17:28	12/18/18 15:51	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 15:51	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	2.5	1	12/15/18 17:28	12/18/18 15:51	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.8	1	12/15/18 17:28	12/18/18 15:51	59-50-7	
4-Chloroaniline	ND	ug/L	50.0	2.8	1	12/15/18 17:28	12/18/18 15:51	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 15:51	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 15:51	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	7005-72-3	
Chrysene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 15:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 15:51	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 15:51	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 15:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 15:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 15:51	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	50.0	3.9	1	12/15/18 17:28	12/18/18 15:51	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 15:51	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 15:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.2	1	12/15/18 17:28	12/18/18 15:51	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	5.1	1	12/15/18 17:28	12/18/18 15:51	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 15:51	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 15:51	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 15:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.3	1	12/15/18 17:28	12/18/18 15:51	117-81-7	
Fluoranthene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 15:51	206-44-0	
Fluorene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 15:51	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.3	1	12/15/18 17:28	12/18/18 15:51	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.8	1	12/15/18 17:28	12/18/18 15:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 15:51	193-39-5	
Isophorone	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 15:51	78-59-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Sample Project No.: 92410726

Sample: MW-30S **Lab ID: 92410726001** Collected: 12/12/18 14:10 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
1-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 15:51	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 15:51	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 15:51	15831-10-4	
Naphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 15:51	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.3	1	12/15/18 17:28	12/18/18 15:51	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.7	1	12/15/18 17:28	12/18/18 15:51	99-09-2	
4-Nitroaniline	ND	ug/L	50.0	3.4	1	12/15/18 17:28	12/18/18 15:51	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.3	1	12/15/18 17:28	12/18/18 15:51	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 15:51	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 15:51	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.8	1	12/15/18 17:28	12/18/18 15:51	108-60-1	
Pentachlorophenol	ND	ug/L	50.0	3.5	1	12/15/18 17:28	12/18/18 15:51	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 15:51	85-01-8	
Phenol	ND	ug/L	10.0	1.3	1	12/15/18 17:28	12/18/18 15:51	108-95-2	
Pyrene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 15:51	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 15:51	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 15:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 15:51	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	46	%	21-110		1	12/15/18 17:28	12/18/18 15:51	4165-60-0	
2-Fluorobiphenyl (S)	49	%	27-110		1	12/15/18 17:28	12/18/18 15:51	321-60-8	
Terphenyl-d14 (S)	42	%	31-107		1	12/15/18 17:28	12/18/18 15:51	1718-51-0	
Phenol-d6 (S)	20	%	10-110		1	12/15/18 17:28	12/18/18 15:51	13127-88-3	
2-Fluorophenol (S)	27	%	12-110		1	12/15/18 17:28	12/18/18 15:51	367-12-4	
2,4,6-Tribromophenol (S)	70	%	27-110		1	12/15/18 17:28	12/18/18 15:51	118-79-6	
8260 MSV Low Level SC Analytical Method: EPA 8260B									
Acetone	ND	ug/L	25.0	10.0	1		12/20/18 14:47	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/20/18 14:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/20/18 14:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/20/18 14:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/20/18 14:47	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/20/18 14:47	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/20/18 14:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/20/18 14:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/20/18 14:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/20/18 14:47	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/20/18 14:47	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/20/18 14:47	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/20/18 14:47	74-87-3	L1
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/20/18 14:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/20/18 14:47	106-43-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Sample Project No.: 92410726

Sample: MW-30S **Lab ID: 92410726001** Collected: 12/12/18 14:10 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/20/18 14:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/20/18 14:47	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/20/18 14:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/20/18 14:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/20/18 14:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/20/18 14:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/20/18 14:47	75-71-8	L1
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/20/18 14:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/20/18 14:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/20/18 14:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/20/18 14:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/20/18 14:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/20/18 14:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/20/18 14:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/20/18 14:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/20/18 14:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/20/18 14:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/20/18 14:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/20/18 14:47	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/20/18 14:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/20/18 14:47	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/20/18 14:47	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/20/18 14:47	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/20/18 14:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/20/18 14:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/20/18 14:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/20/18 14:47	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/20/18 14:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/20/18 14:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/20/18 14:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/20/18 14:47	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/20/18 14:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/20/18 14:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/20/18 14:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/20/18 14:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/20/18 14:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/20/18 14:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/20/18 14:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/20/18 14:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/20/18 14:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/20/18 14:47	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/20/18 14:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/20/18 14:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/20/18 14:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/20/18 14:47	460-00-4	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-30S		Lab ID: 92410726001		Collected: 12/12/18 14:10	Received: 12/13/18 13:10	Matrix: Water			
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
Surrogates									
1,2-Dichloroethane-d4 (S)	112	%	70-130				12/20/18 14:47	17060-07-0	
Toluene-d8 (S)	100	%	70-130				12/20/18 14:47	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: MW-30S DUP **Lab ID: 92410726002** Collected: 12/12/18 14:10 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:19	208-96-8	
Aniline	ND	ug/L	10.0	1.2	1	12/15/18 17:28	12/18/18 16:19	62-53-3	
Anthracene	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 16:19	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 16:19	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 16:19	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 16:19	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 16:19	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 16:19	207-08-9	
Benzoic Acid	ND	ug/L	50.0	5.0	1	12/15/18 17:28	12/18/18 16:19	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.1	1	12/15/18 17:28	12/18/18 16:19	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:19	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	2.5	1	12/15/18 17:28	12/18/18 16:19	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.8	1	12/15/18 17:28	12/18/18 16:19	59-50-7	
4-Chloroaniline	ND	ug/L	50.0	2.8	1	12/15/18 17:28	12/18/18 16:19	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 16:19	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:19	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	7005-72-3	
Chrysene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 16:19	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 16:19	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 16:19	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:19	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	50.0	3.9	1	12/15/18 17:28	12/18/18 16:19	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:19	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 16:19	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.2	1	12/15/18 17:28	12/18/18 16:19	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	5.1	1	12/15/18 17:28	12/18/18 16:19	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:19	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:19	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:19	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.3	1	12/15/18 17:28	12/18/18 16:19	117-81-7	
Fluoranthene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 16:19	206-44-0	
Fluorene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 16:19	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.3	1	12/15/18 17:28	12/18/18 16:19	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.8	1	12/15/18 17:28	12/18/18 16:19	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 16:19	193-39-5	
Isophorone	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:19	78-59-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Sample Project No.: 92410726

Sample: MW-30S DUP **Lab ID: 92410726002** Collected: 12/12/18 14:10 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
1-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:19	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:19	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:19	15831-10-4	
Naphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:19	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.3	1	12/15/18 17:28	12/18/18 16:19	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.7	1	12/15/18 17:28	12/18/18 16:19	99-09-2	
4-Nitroaniline	ND	ug/L	50.0	3.4	1	12/15/18 17:28	12/18/18 16:19	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.3	1	12/15/18 17:28	12/18/18 16:19	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 16:19	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:19	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.8	1	12/15/18 17:28	12/18/18 16:19	108-60-1	
Pentachlorophenol	ND	ug/L	50.0	3.5	1	12/15/18 17:28	12/18/18 16:19	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:19	85-01-8	
Phenol	ND	ug/L	10.0	1.3	1	12/15/18 17:28	12/18/18 16:19	108-95-2	
Pyrene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 16:19	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:19	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:19	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:19	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	36	%	21-110		1	12/15/18 17:28	12/18/18 16:19	4165-60-0	
2-Fluorobiphenyl (S)	37	%	27-110		1	12/15/18 17:28	12/18/18 16:19	321-60-8	
Terphenyl-d14 (S)	35	%	31-107		1	12/15/18 17:28	12/18/18 16:19	1718-51-0	
Phenol-d6 (S)	13	%	10-110		1	12/15/18 17:28	12/18/18 16:19	13127-88-3	
2-Fluorophenol (S)	19	%	12-110		1	12/15/18 17:28	12/18/18 16:19	367-12-4	
2,4,6-Tribromophenol (S)	55	%	27-110		1	12/15/18 17:28	12/18/18 16:19	118-79-6	
8260 MSV Low Level SC Analytical Method: EPA 8260B									
Acetone	ND	ug/L	25.0	10.0	1		12/20/18 15:03	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/20/18 15:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/20/18 15:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/20/18 15:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/20/18 15:03	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/20/18 15:03	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/20/18 15:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/20/18 15:03	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/20/18 15:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/20/18 15:03	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/20/18 15:03	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/20/18 15:03	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/20/18 15:03	74-87-3	L1
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/20/18 15:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/20/18 15:03	106-43-4	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: MW-30S DUP **Lab ID: 92410726002** Collected: 12/12/18 14:10 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/20/18 15:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/20/18 15:03	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/20/18 15:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/20/18 15:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/20/18 15:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/20/18 15:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/20/18 15:03	75-71-8	L1
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/20/18 15:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/20/18 15:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/20/18 15:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/20/18 15:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/20/18 15:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/20/18 15:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/20/18 15:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/20/18 15:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/20/18 15:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/20/18 15:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/20/18 15:03	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/20/18 15:03	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/20/18 15:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/20/18 15:03	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/20/18 15:03	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/20/18 15:03	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/20/18 15:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/20/18 15:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/20/18 15:03	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/20/18 15:03	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/20/18 15:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/20/18 15:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/20/18 15:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/20/18 15:03	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/20/18 15:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/20/18 15:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/20/18 15:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/20/18 15:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/20/18 15:03	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/20/18 15:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/20/18 15:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/20/18 15:03	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/20/18 15:03	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/20/18 15:03	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/20/18 15:03	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/20/18 15:03	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/20/18 15:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/20/18 15:03	460-00-4	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-30S DUP		Lab ID: 92410726002		Collected: 12/12/18 14:10	Received: 12/13/18 13:10	Matrix: Water			
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/20/18 15:03	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/20/18 15:03	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: MW-31S MS/MSD **Lab ID: 92410726003** Collected: 12/12/18 11:53 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	2.8J	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:48	208-96-8	
Aniline	ND	ug/L	10.0	1.2	1	12/15/18 17:28	12/18/18 16:48	62-53-3	
Anthracene	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 16:48	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 16:48	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 16:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 16:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 16:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 16:48	207-08-9	
Benzoic Acid	ND	ug/L	50.0	5.0	1	12/15/18 17:28	12/18/18 16:48	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.1	1	12/15/18 17:28	12/18/18 16:48	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:48	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	2.5	1	12/15/18 17:28	12/18/18 16:48	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.8	1	12/15/18 17:28	12/18/18 16:48	59-50-7	
4-Chloroaniline	ND	ug/L	50.0	2.8	1	12/15/18 17:28	12/18/18 16:48	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 16:48	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:48	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	7005-72-3	
Chrysene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 16:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 16:48	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 16:48	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:48	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	50.0	3.9	1	12/15/18 17:28	12/18/18 16:48	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:48	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 16:48	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.2	1	12/15/18 17:28	12/18/18 16:48	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	5.1	1	12/15/18 17:28	12/18/18 16:48	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:48	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:48	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:48	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.3	1	12/15/18 17:28	12/18/18 16:48	117-81-7	
Fluoranthene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 16:48	206-44-0	
Fluorene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 16:48	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.3	1	12/15/18 17:28	12/18/18 16:48	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.8	1	12/15/18 17:28	12/18/18 16:48	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 16:48	193-39-5	
Isophorone	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:48	78-59-1	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Sample Project No.: 92410726

Sample: MW-31S MS/MSD **Lab ID: 92410726003** Collected: 12/12/18 11:53 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
1-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:48	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:48	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:48	15831-10-4	
Naphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:48	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.3	1	12/15/18 17:28	12/18/18 16:48	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.7	1	12/15/18 17:28	12/18/18 16:48	99-09-2	
4-Nitroaniline	ND	ug/L	50.0	3.4	1	12/15/18 17:28	12/18/18 16:48	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.3	1	12/15/18 17:28	12/18/18 16:48	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 16:48	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:48	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.8	1	12/15/18 17:28	12/18/18 16:48	108-60-1	
Pentachlorophenol	ND	ug/L	50.0	3.5	1	12/15/18 17:28	12/18/18 16:48	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 16:48	85-01-8	
Phenol	ND	ug/L	10.0	1.3	1	12/15/18 17:28	12/18/18 16:48	108-95-2	
Pyrene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 16:48	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:48	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 16:48	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 16:48	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	44	%	21-110		1	12/15/18 17:28	12/18/18 16:48	4165-60-0	
2-Fluorobiphenyl (S)	45	%	27-110		1	12/15/18 17:28	12/18/18 16:48	321-60-8	
Terphenyl-d14 (S)	29	%	31-107		1	12/15/18 17:28	12/18/18 16:48	1718-51-0	S0
Phenol-d6 (S)	17	%	10-110		1	12/15/18 17:28	12/18/18 16:48	13127-88-3	
2-Fluorophenol (S)	24	%	12-110		1	12/15/18 17:28	12/18/18 16:48	367-12-4	
2,4,6-Tribromophenol (S)	67	%	27-110		1	12/15/18 17:28	12/18/18 16:48	118-79-6	
8260 MSV Low Level SC Analytical Method: EPA 8260B									
Acetone	ND	ug/L	25.0	10.0	1		12/20/18 15:20	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/20/18 15:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/20/18 15:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/20/18 15:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/20/18 15:20	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/20/18 15:20	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/20/18 15:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/20/18 15:20	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/20/18 15:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/20/18 15:20	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/20/18 15:20	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/20/18 15:20	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/20/18 15:20	74-87-3	L1,M0
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/20/18 15:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/20/18 15:20	106-43-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: MW-31S MS/MSD **Lab ID: 92410726003** Collected: 12/12/18 11:53 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/20/18 15:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/20/18 15:20	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/20/18 15:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/20/18 15:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/20/18 15:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/20/18 15:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/20/18 15:20	75-71-8	L1,M0
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/20/18 15:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/20/18 15:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/20/18 15:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/20/18 15:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/20/18 15:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/20/18 15:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/20/18 15:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/20/18 15:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/20/18 15:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/20/18 15:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/20/18 15:20	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/20/18 15:20	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/20/18 15:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/20/18 15:20	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/20/18 15:20	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/20/18 15:20	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/20/18 15:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/20/18 15:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/20/18 15:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/20/18 15:20	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/20/18 15:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/20/18 15:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/20/18 15:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/20/18 15:20	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/20/18 15:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/20/18 15:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/20/18 15:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/20/18 15:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/20/18 15:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/20/18 15:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/20/18 15:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/20/18 15:20	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/20/18 15:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/20/18 15:20	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/20/18 15:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/20/18 15:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/20/18 15:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/20/18 15:20	460-00-4	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: MW-31S MS/MSD		Lab ID: 92410726003		Collected: 12/12/18 11:53	Received: 12/13/18 13:10	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260B							
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/20/18 15:20	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/20/18 15:20	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: MW-31 TZ **Lab ID: 92410726004** Collected: 12/12/18 12:54 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:16	208-96-8	
Aniline	ND	ug/L	10.0	1.2	1	12/15/18 17:28	12/18/18 17:16	62-53-3	
Anthracene	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 17:16	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 17:16	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 17:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 17:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 17:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 17:16	207-08-9	
Benzoic Acid	ND	ug/L	50.0	5.0	1	12/15/18 17:28	12/18/18 17:16	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.1	1	12/15/18 17:28	12/18/18 17:16	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:16	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	2.5	1	12/15/18 17:28	12/18/18 17:16	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.8	1	12/15/18 17:28	12/18/18 17:16	59-50-7	
4-Chloroaniline	ND	ug/L	50.0	2.8	1	12/15/18 17:28	12/18/18 17:16	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 17:16	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:16	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	7005-72-3	
Chrysene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 17:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 17:16	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 17:16	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:16	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	50.0	3.9	1	12/15/18 17:28	12/18/18 17:16	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:16	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 17:16	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.2	1	12/15/18 17:28	12/18/18 17:16	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	5.1	1	12/15/18 17:28	12/18/18 17:16	51-28-5	
2,4-Dinitrotoluene	5.3J	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:16	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:16	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:16	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.3	1	12/15/18 17:28	12/18/18 17:16	117-81-7	
Fluoranthene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 17:16	206-44-0	
Fluorene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 17:16	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.3	1	12/15/18 17:28	12/18/18 17:16	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.8	1	12/15/18 17:28	12/18/18 17:16	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 17:16	193-39-5	
Isophorone	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:16	78-59-1	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Sample Project No.: 92410726

Sample: MW-31 TZ **Lab ID: 92410726004** Collected: 12/12/18 12:54 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
1-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:16	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:16	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:16	15831-10-4	
Naphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:16	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.3	1	12/15/18 17:28	12/18/18 17:16	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.7	1	12/15/18 17:28	12/18/18 17:16	99-09-2	
4-Nitroaniline	ND	ug/L	50.0	3.4	1	12/15/18 17:28	12/18/18 17:16	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.3	1	12/15/18 17:28	12/18/18 17:16	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 17:16	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:16	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.8	1	12/15/18 17:28	12/18/18 17:16	108-60-1	
Pentachlorophenol	ND	ug/L	50.0	3.5	1	12/15/18 17:28	12/18/18 17:16	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:16	85-01-8	
Phenol	ND	ug/L	10.0	1.3	1	12/15/18 17:28	12/18/18 17:16	108-95-2	
Pyrene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 17:16	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:16	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:16	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:16	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	47	%	21-110		1	12/15/18 17:28	12/18/18 17:16	4165-60-0	
2-Fluorobiphenyl (S)	49	%	27-110		1	12/15/18 17:28	12/18/18 17:16	321-60-8	
Terphenyl-d14 (S)	32	%	31-107		1	12/15/18 17:28	12/18/18 17:16	1718-51-0	
Phenol-d6 (S)	18	%	10-110		1	12/15/18 17:28	12/18/18 17:16	13127-88-3	
2-Fluorophenol (S)	26	%	12-110		1	12/15/18 17:28	12/18/18 17:16	367-12-4	
2,4,6-Tribromophenol (S)	69	%	27-110		1	12/15/18 17:28	12/18/18 17:16	118-79-6	
8260 MSV Low Level SC Analytical Method: EPA 8260B									
Acetone	ND	ug/L	25.0	10.0	1		12/20/18 15:36	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/20/18 15:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/20/18 15:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/20/18 15:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/20/18 15:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/20/18 15:36	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/20/18 15:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/20/18 15:36	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/20/18 15:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/20/18 15:36	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/20/18 15:36	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/20/18 15:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/20/18 15:36	74-87-3	L1
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/20/18 15:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/20/18 15:36	106-43-4	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: MW-31 TZ Lab ID: 92410726004 Collected: 12/12/18 12:54 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/20/18 15:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/20/18 15:36	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/20/18 15:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/20/18 15:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/20/18 15:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/20/18 15:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/20/18 15:36	75-71-8	L1
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/20/18 15:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/20/18 15:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/20/18 15:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/20/18 15:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/20/18 15:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/20/18 15:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/20/18 15:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/20/18 15:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/20/18 15:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/20/18 15:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/20/18 15:36	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/20/18 15:36	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/20/18 15:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/20/18 15:36	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/20/18 15:36	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/20/18 15:36	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/20/18 15:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/20/18 15:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/20/18 15:36	1634-04-4	
Naphthalene	0.38J	ug/L	1.0	0.24	1		12/20/18 15:36	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/20/18 15:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/20/18 15:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/20/18 15:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/20/18 15:36	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/20/18 15:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/20/18 15:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/20/18 15:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/20/18 15:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/20/18 15:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/20/18 15:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/20/18 15:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/20/18 15:36	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/20/18 15:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/20/18 15:36	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/20/18 15:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/20/18 15:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/20/18 15:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/20/18 15:36	460-00-4	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: MW-31 TZ		Lab ID: 92410726004		Collected: 12/12/18 12:54	Received: 12/13/18 13:10	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260B							
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/20/18 15:36	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		12/20/18 15:36	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Sample Project No.: 92410726

Sample: TRIP BLANK **Lab ID: 92410726005** Collected: 12/12/18 12:50 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
Acetone	ND	ug/L	25.0	10.0	1		12/18/18 18:18	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/18/18 18:18	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/18/18 18:18	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/18/18 18:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/18/18 18:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/18/18 18:18	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/18/18 18:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/18/18 18:18	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/18/18 18:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/18/18 18:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/18/18 18:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/18/18 18:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/18/18 18:18	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/18/18 18:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/18/18 18:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/18/18 18:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/18/18 18:18	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/18/18 18:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/18/18 18:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/18/18 18:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/18/18 18:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/18/18 18:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/18/18 18:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/18/18 18:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/18/18 18:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/18/18 18:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/18/18 18:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/18/18 18:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/18/18 18:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/18/18 18:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/18/18 18:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/18/18 18:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/18/18 18:18	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/18/18 18:18	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/18/18 18:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/18/18 18:18	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/18/18 18:18	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/18/18 18:18	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/18/18 18:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/18/18 18:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/18/18 18:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/18/18 18:18	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/18/18 18:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/18/18 18:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/18/18 18:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/18/18 18:18	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: TRIP BLANK Lab ID: 92410726005 Collected: 12/12/18 12:50 Received: 12/13/18 13:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC Analytical Method: EPA 8260B									
Toluene	ND	ug/L	1.0	0.26	1		12/18/18 18:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/18/18 18:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/18/18 18:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/18/18 18:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/18/18 18:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/18/18 18:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/18/18 18:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/18/18 18:18	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/18/18 18:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/18/18 18:18	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/18/18 18:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/18/18 18:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/18/18 18:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/18/18 18:18	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/18/18 18:18	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/18/18 18:18	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: EQB **Lab ID: 92410726006** Collected: 12/12/18 14:55 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:44	208-96-8	
Aniline	ND	ug/L	10.0	1.2	1	12/15/18 17:28	12/18/18 17:44	62-53-3	
Anthracene	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 17:44	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 17:44	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 17:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 17:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 17:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 17:44	207-08-9	
Benzoic Acid	ND	ug/L	50.0	5.0	1	12/15/18 17:28	12/18/18 17:44	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.1	1	12/15/18 17:28	12/18/18 17:44	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:44	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	2.5	1	12/15/18 17:28	12/18/18 17:44	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.8	1	12/15/18 17:28	12/18/18 17:44	59-50-7	
4-Chloroaniline	ND	ug/L	50.0	2.8	1	12/15/18 17:28	12/18/18 17:44	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 17:44	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:44	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	7005-72-3	
Chrysene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 17:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 17:44	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 17:44	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:44	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	50.0	3.9	1	12/15/18 17:28	12/18/18 17:44	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:44	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 17:44	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.2	1	12/15/18 17:28	12/18/18 17:44	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	5.1	1	12/15/18 17:28	12/18/18 17:44	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:44	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:44	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:44	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.3	1	12/15/18 17:28	12/18/18 17:44	117-81-7	
Fluoranthene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 17:44	206-44-0	
Fluorene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 17:44	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.3	1	12/15/18 17:28	12/18/18 17:44	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.8	1	12/15/18 17:28	12/18/18 17:44	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 17:44	193-39-5	
Isophorone	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:44	78-59-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Sample Project No.: 92410726

Sample: EQB **Lab ID: 92410726006** Collected: 12/12/18 14:55 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
1-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:44	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:44	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:44	15831-10-4	
Naphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:44	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.3	1	12/15/18 17:28	12/18/18 17:44	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.7	1	12/15/18 17:28	12/18/18 17:44	99-09-2	
4-Nitroaniline	ND	ug/L	50.0	3.4	1	12/15/18 17:28	12/18/18 17:44	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.3	1	12/15/18 17:28	12/18/18 17:44	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 17:44	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:44	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.8	1	12/15/18 17:28	12/18/18 17:44	108-60-1	
Pentachlorophenol	ND	ug/L	50.0	3.5	1	12/15/18 17:28	12/18/18 17:44	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 17:44	85-01-8	
Phenol	ND	ug/L	10.0	1.3	1	12/15/18 17:28	12/18/18 17:44	108-95-2	
Pyrene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 17:44	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:44	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 17:44	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 17:44	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	49	%	21-110		1	12/15/18 17:28	12/18/18 17:44	4165-60-0	
2-Fluorobiphenyl (S)	50	%	27-110		1	12/15/18 17:28	12/18/18 17:44	321-60-8	
Terphenyl-d14 (S)	46	%	31-107		1	12/15/18 17:28	12/18/18 17:44	1718-51-0	
Phenol-d6 (S)	18	%	10-110		1	12/15/18 17:28	12/18/18 17:44	13127-88-3	
2-Fluorophenol (S)	26	%	12-110		1	12/15/18 17:28	12/18/18 17:44	367-12-4	
2,4,6-Tribromophenol (S)	61	%	27-110		1	12/15/18 17:28	12/18/18 17:44	118-79-6	
8260 MSV Low Level SC Analytical Method: EPA 8260B									
Acetone	18.6J	ug/L	25.0	10.0	1		12/20/18 14:14	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/20/18 14:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/20/18 14:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/20/18 14:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/20/18 14:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/20/18 14:14	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/20/18 14:14	74-83-9	
2-Butanone (MEK)	3.7J	ug/L	5.0	0.96	1		12/20/18 14:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/20/18 14:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/20/18 14:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/20/18 14:14	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/20/18 14:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/20/18 14:14	74-87-3	L1
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/20/18 14:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/20/18 14:14	106-43-4	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Sample Project No.: 92410726

Sample: EQB Lab ID: 92410726006 Collected: 12/12/18 14:55 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/20/18 14:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/20/18 14:14	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/20/18 14:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/20/18 14:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/20/18 14:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/20/18 14:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/20/18 14:14	75-71-8	L1
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/20/18 14:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/20/18 14:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/20/18 14:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/20/18 14:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/20/18 14:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/20/18 14:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/20/18 14:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/20/18 14:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/20/18 14:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/20/18 14:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/20/18 14:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/20/18 14:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/20/18 14:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/20/18 14:14	87-68-3	
2-Hexanone	0.58J	ug/L	5.0	0.46	1		12/20/18 14:14	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/20/18 14:14	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/20/18 14:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/20/18 14:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/20/18 14:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/20/18 14:14	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/20/18 14:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/20/18 14:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/20/18 14:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/20/18 14:14	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/20/18 14:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/20/18 14:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/20/18 14:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/20/18 14:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/20/18 14:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/20/18 14:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/20/18 14:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/20/18 14:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/20/18 14:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/20/18 14:14	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/20/18 14:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/20/18 14:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/20/18 14:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		12/20/18 14:14	460-00-4	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: EQB		Lab ID: 92410726006		Collected: 12/12/18 14:55	Received: 12/13/18 13:10	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260B							
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/20/18 14:14	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		12/20/18 14:14	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: FB 1 **Lab ID: 92410726007** Collected: 12/12/18 15:05 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 18:12	208-96-8	
Aniline	ND	ug/L	10.0	1.2	1	12/15/18 17:28	12/18/18 18:12	62-53-3	
Anthracene	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 18:12	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 18:12	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 18:12	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 18:12	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 18:12	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 18:12	207-08-9	
Benzoic Acid	ND	ug/L	50.0	5.0	1	12/15/18 17:28	12/18/18 18:12	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.1	1	12/15/18 17:28	12/18/18 18:12	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 18:12	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	2.5	1	12/15/18 17:28	12/18/18 18:12	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.8	1	12/15/18 17:28	12/18/18 18:12	59-50-7	
4-Chloroaniline	ND	ug/L	50.0	2.8	1	12/15/18 17:28	12/18/18 18:12	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 18:12	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 18:12	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	7005-72-3	
Chrysene	ND	ug/L	10.0	2.1	1	12/15/18 17:28	12/18/18 18:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 18:12	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 18:12	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 18:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 18:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 18:12	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	50.0	3.9	1	12/15/18 17:28	12/18/18 18:12	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 18:12	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 18:12	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.2	1	12/15/18 17:28	12/18/18 18:12	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	5.1	1	12/15/18 17:28	12/18/18 18:12	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 18:12	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 18:12	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 18:12	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.3	1	12/15/18 17:28	12/18/18 18:12	117-81-7	
Fluoranthene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 18:12	206-44-0	
Fluorene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 18:12	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.3	1	12/15/18 17:28	12/18/18 18:12	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.8	1	12/15/18 17:28	12/18/18 18:12	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	2.0	1	12/15/18 17:28	12/18/18 18:12	193-39-5	
Isophorone	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 18:12	78-59-1	

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Sample Project No.: 92410726

Sample: FB 1 **Lab ID: 92410726007** Collected: 12/12/18 15:05 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
1-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 18:12	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 18:12	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 18:12	15831-10-4	
Naphthalene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 18:12	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.3	1	12/15/18 17:28	12/18/18 18:12	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.7	1	12/15/18 17:28	12/18/18 18:12	99-09-2	
4-Nitroaniline	ND	ug/L	50.0	3.4	1	12/15/18 17:28	12/18/18 18:12	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.3	1	12/15/18 17:28	12/18/18 18:12	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.7	1	12/15/18 17:28	12/18/18 18:12	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 18:12	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.8	1	12/15/18 17:28	12/18/18 18:12	108-60-1	
Pentachlorophenol	ND	ug/L	50.0	3.5	1	12/15/18 17:28	12/18/18 18:12	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.6	1	12/15/18 17:28	12/18/18 18:12	85-01-8	
Phenol	ND	ug/L	10.0	1.3	1	12/15/18 17:28	12/18/18 18:12	108-95-2	
Pyrene	ND	ug/L	10.0	2.2	1	12/15/18 17:28	12/18/18 18:12	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 18:12	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	12/15/18 17:28	12/18/18 18:12	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	12/15/18 17:28	12/18/18 18:12	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	70	%	21-110		1	12/15/18 17:28	12/18/18 18:12	4165-60-0	
2-Fluorobiphenyl (S)	69	%	27-110		1	12/15/18 17:28	12/18/18 18:12	321-60-8	
Terphenyl-d14 (S)	55	%	31-107		1	12/15/18 17:28	12/18/18 18:12	1718-51-0	
Phenol-d6 (S)	26	%	10-110		1	12/15/18 17:28	12/18/18 18:12	13127-88-3	
2-Fluorophenol (S)	39	%	12-110		1	12/15/18 17:28	12/18/18 18:12	367-12-4	
2,4,6-Tribromophenol (S)	77	%	27-110		1	12/15/18 17:28	12/18/18 18:12	118-79-6	
8260 MSV Low Level SC Analytical Method: EPA 8260B									
Acetone	18.4J	ug/L	25.0	10.0	1		12/20/18 14:30	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/20/18 14:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/20/18 14:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/20/18 14:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/20/18 14:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/20/18 14:30	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/20/18 14:30	74-83-9	
2-Butanone (MEK)	3.6J	ug/L	5.0	0.96	1		12/20/18 14:30	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/20/18 14:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/20/18 14:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/20/18 14:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/20/18 14:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/20/18 14:30	74-87-3	L1
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/20/18 14:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/20/18 14:30	106-43-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: FB 1 **Lab ID: 92410726007** Collected: 12/12/18 15:05 Received: 12/13/18 13:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/20/18 14:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/20/18 14:30	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/20/18 14:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/20/18 14:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/20/18 14:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/20/18 14:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/20/18 14:30	75-71-8	L1
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/20/18 14:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/20/18 14:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/20/18 14:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/20/18 14:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/20/18 14:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/20/18 14:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/20/18 14:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/20/18 14:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/20/18 14:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/20/18 14:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/20/18 14:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/20/18 14:30	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/20/18 14:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/20/18 14:30	87-68-3	
2-Hexanone	0.56J	ug/L	5.0	0.46	1		12/20/18 14:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/20/18 14:30	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/20/18 14:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/20/18 14:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/20/18 14:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/20/18 14:30	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/20/18 14:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/20/18 14:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/20/18 14:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/20/18 14:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/20/18 14:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/20/18 14:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/20/18 14:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/20/18 14:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/20/18 14:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/20/18 14:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/20/18 14:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/20/18 14:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/20/18 14:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/20/18 14:30	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/20/18 14:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/20/18 14:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/20/18 14:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/20/18 14:30	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Sample: FB 1		Lab ID: 92410726007		Collected: 12/12/18 15:05	Received: 12/13/18 13:10	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260B							
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		12/20/18 14:30	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/20/18 14:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

QC Batch: 448278

Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B

Analysis Description: 8260 MSV Low Level SC

Associated Lab Samples: 92410726005

METHOD BLANK: 2455472

Matrix: Water

Associated Lab Samples: 92410726005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.33	12/18/18 12:07	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.48	12/18/18 12:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.40	12/18/18 12:07	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.29	12/18/18 12:07	
1,1-Dichloroethane	ug/L	ND	1.0	0.32	12/18/18 12:07	
1,1-Dichloroethene	ug/L	ND	1.0	0.56	12/18/18 12:07	
1,1-Dichloropropene	ug/L	ND	1.0	0.49	12/18/18 12:07	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.33	12/18/18 12:07	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.41	12/18/18 12:07	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.35	12/18/18 12:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	2.0	12/18/18 12:07	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.30	12/18/18 12:07	
1,2-Dichloroethane	ug/L	ND	1.0	0.24	12/18/18 12:07	
1,2-Dichloropropane	ug/L	ND	1.0	0.27	12/18/18 12:07	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.24	12/18/18 12:07	
1,3-Dichloropropane	ug/L	ND	1.0	0.28	12/18/18 12:07	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.33	12/18/18 12:07	
2,2-Dichloropropane	ug/L	ND	1.0	0.13	12/18/18 12:07	
2-Butanone (MEK)	ug/L	ND	5.0	0.96	12/18/18 12:07	
2-Chlorotoluene	ug/L	ND	1.0	0.35	12/18/18 12:07	
2-Hexanone	ug/L	ND	5.0	0.46	12/18/18 12:07	
4-Chlorotoluene	ug/L	ND	1.0	0.31	12/18/18 12:07	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	0.33	12/18/18 12:07	
Acetone	ug/L	ND	25.0	10.0	12/18/18 12:07	
Benzene	ug/L	ND	1.0	0.25	12/18/18 12:07	
Bromobenzene	ug/L	ND	1.0	0.30	12/18/18 12:07	
Bromochloromethane	ug/L	ND	1.0	0.17	12/18/18 12:07	
Bromodichloromethane	ug/L	ND	1.0	0.18	12/18/18 12:07	
Bromoform	ug/L	ND	1.0	0.26	12/18/18 12:07	
Bromomethane	ug/L	ND	5.0	0.29	12/18/18 12:07	
Carbon tetrachloride	ug/L	ND	1.0	0.25	12/18/18 12:07	
Chlorobenzene	ug/L	ND	1.0	0.23	12/18/18 12:07	
Chloroethane	ug/L	ND	1.0	0.54	12/18/18 12:07	
Chloroform	ug/L	0.21J	1.0	0.14	12/18/18 12:07	
Chloromethane	ug/L	ND	1.0	0.11	12/18/18 12:07	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.19	12/18/18 12:07	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.13	12/18/18 12:07	
Dibromochloromethane	ug/L	ND	1.0	0.21	12/18/18 12:07	
Dibromomethane	ug/L	ND	1.0	0.21	12/18/18 12:07	
Dichlorodifluoromethane	ug/L	ND	1.0	0.21	12/18/18 12:07	
Diisopropyl ether	ug/L	ND	1.0	0.12	12/18/18 12:07	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

METHOD BLANK: 2455472

Matrix: Water

Associated Lab Samples: 92410726005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	1.0	0.30	12/18/18 12:07	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.71	12/18/18 12:07	
m&p-Xylene	ug/L	ND	2.0	0.66	12/18/18 12:07	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	12/18/18 12:07	
Methylene Chloride	ug/L	ND	2.0	0.97	12/18/18 12:07	
Naphthalene	ug/L	0.28J	1.0	0.24	12/18/18 12:07	
o-Xylene	ug/L	ND	1.0	0.23	12/18/18 12:07	
p-Isopropyltoluene	ug/L	ND	1.0	0.31	12/18/18 12:07	
Styrene	ug/L	ND	1.0	0.26	12/18/18 12:07	
Tetrachloroethene	ug/L	ND	1.0	0.46	12/18/18 12:07	
Toluene	ug/L	ND	1.0	0.26	12/18/18 12:07	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.49	12/18/18 12:07	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.26	12/18/18 12:07	
Trichloroethene	ug/L	ND	1.0	0.47	12/18/18 12:07	
Trichlorofluoromethane	ug/L	ND	1.0	0.20	12/18/18 12:07	
Vinyl acetate	ug/L	ND	2.0	0.35	12/18/18 12:07	
Vinyl chloride	ug/L	ND	1.0	0.62	12/18/18 12:07	
Xylene (Total)	ug/L	ND	1.0	1.0	12/18/18 12:07	
1,2-Dichloroethane-d4 (S)	%	109	70-130		12/18/18 12:07	
4-Bromofluorobenzene (S)	%	98	70-130		12/18/18 12:07	
Toluene-d8 (S)	%	102	70-130		12/18/18 12:07	

LABORATORY CONTROL SAMPLE: 2455473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.2	98	70-130	
1,1,1-Trichloroethane	ug/L	50	50.6	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.1	94	70-130	
1,1,2-Trichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethane	ug/L	50	50.8	102	70-130	
1,1-Dichloroethene	ug/L	50	52.6	105	70-130	
1,1-Dichloropropene	ug/L	50	48.4	97	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	70-130	
1,2,3-Trichloropropane	ug/L	50	49.6	99	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.3	95	70-130	
1,2-Dichlorobenzene	ug/L	50	48.1	96	70-130	
1,2-Dichloroethane	ug/L	50	50.8	102	70-130	
1,2-Dichloropropane	ug/L	50	49.1	98	70-130	
1,3-Dichlorobenzene	ug/L	50	48.2	96	70-130	
1,3-Dichloropropane	ug/L	50	49.6	99	70-130	
1,4-Dichlorobenzene	ug/L	50	47.4	95	70-130	
2,2-Dichloropropane	ug/L	50	51.2	102	70-130	
2-Butanone (MEK)	ug/L	100	101	101	70-130	

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

LABORATORY CONTROL SAMPLE: 2455473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	50	49.4	99	70-130	
2-Hexanone	ug/L	100	98.4	98	70-130	
4-Chlorotoluene	ug/L	50	48.9	98	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.8	97	70-130	
Acetone	ug/L	100	104	104	70-130	
Benzene	ug/L	50	50.2	100	70-130	
Bromobenzene	ug/L	50	48.4	97	70-130	
Bromochloromethane	ug/L	50	48.0	96	70-130	
Bromodichloromethane	ug/L	50	48.2	96	70-130	
Bromoform	ug/L	50	44.9	90	70-130	
Bromomethane	ug/L	50	53.1	106	70-130	
Carbon tetrachloride	ug/L	50	48.9	98	70-130	
Chlorobenzene	ug/L	50	48.5	97	70-130	
Chloroethane	ug/L	50	40.1	80	70-130	
Chloroform	ug/L	50	48.0	96	70-130	
Chloromethane	ug/L	50	53.0	106	70-130	
cis-1,2-Dichloroethene	ug/L	50	52.1	104	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.6	99	70-130	
Dibromochloromethane	ug/L	50	47.3	95	70-130	
Dibromomethane	ug/L	50	46.6	93	70-130	
Dichlorodifluoromethane	ug/L	50	51.5	103	70-130	
Diisopropyl ether	ug/L	50	52.7	105	70-130	
Ethylbenzene	ug/L	50	49.4	99	70-130	
Hexachloro-1,3-butadiene	ug/L	50	47.7	95	70-130	
m&p-Xylene	ug/L	100	96.7	97	70-130	
Methyl-tert-butyl ether	ug/L	50	49.7	99	70-130	
Methylene Chloride	ug/L	50	54.2	108	70-130	
Naphthalene	ug/L	50	48.4	97	70-130	
o-Xylene	ug/L	50	47.5	95	70-130	
p-Isopropyltoluene	ug/L	50	48.2	96	70-130	
Styrene	ug/L	50	48.0	96	70-130	
Tetrachloroethene	ug/L	50	45.8	92	70-130	
Toluene	ug/L	50	47.6	95	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.3	105	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.1	102	70-130	
Trichloroethene	ug/L	50	49.1	98	70-130	
Trichlorofluoromethane	ug/L	50	57.3	115	70-130	
Vinyl acetate	ug/L	100	109	109	70-130	
Vinyl chloride	ug/L	50	53.4	107	70-130	
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

MATRIX SPIKE SAMPLE:	2455475	92410843011	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.4	102	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	22.1	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.3	102	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.2	106	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.7	113	70-130	
1,1-Dichloroethene	ug/L	ND	20	24.1	120	70-130	
1,1-Dichloropropene	ug/L	ND	20	21.4	107	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	20.2	101	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.9	109	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	20.5	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	18.9	95	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	20.6	103	70-130	
1,2-Dichloroethane	ug/L	ND	20	22.6	113	70-130	
1,2-Dichloropropane	ug/L	ND	20	22.3	112	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	20.1	101	70-130	
1,3-Dichloropropane	ug/L	ND	20	21.5	107	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	20.1	101	70-130	
2,2-Dichloropropane	ug/L	ND	20	19.7	98	70-130	
2-Butanone (MEK)	ug/L	ND	40	47.2	118	70-130	
2-Chlorotoluene	ug/L	ND	20	20.9	104	70-130	
2-Hexanone	ug/L	ND	40	44.3	111	70-130	
4-Chlorotoluene	ug/L	ND	20	21.1	106	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	46.4	116	70-130	
Acetone	ug/L	ND	40	51.7	129	70-130	
Benzene	ug/L	ND	20	22.4	112	70-130	
Bromobenzene	ug/L	ND	20	20.8	104	70-130	
Bromochloromethane	ug/L	ND	20	21.5	107	70-130	
Bromodichloromethane	ug/L	ND	20	21.1	106	70-130	
Bromoform	ug/L	ND	20	17.5	88	70-130	
Bromomethane	ug/L	ND	20	14.3	71	70-130	
Carbon tetrachloride	ug/L	ND	20	21.1	106	70-130	
Chlorobenzene	ug/L	ND	20	21.0	105	70-130	
Chloroethane	ug/L	ND	20	22.8	114	70-130	
Chloroform	ug/L	ND	20	22.6	113	70-130	
Chloromethane	ug/L	ND	20	21.1	106	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	23.4	117	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	21.1	106	70-130	
Dibromochloromethane	ug/L	ND	20	19.1	96	70-130	
Dibromomethane	ug/L	ND	20	20.7	103	70-130	
Dichlorodifluoromethane	ug/L	ND	20	16.1	80	70-130	
Diisopropyl ether	ug/L	ND	20	23.3	116	70-130	
Ethylbenzene	ug/L	ND	20	21.9	110	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	19.7	98	70-130	
m&p-Xylene	ug/L	ND	40	43.1	108	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	22.4	112	70-130	
Methylene Chloride	ug/L	ND	20	23.4	117	70-130	
Naphthalene	ug/L	ND	20	22.0	110	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

MATRIX SPIKE SAMPLE: 2455475		92410843011	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
o-Xylene	ug/L	ND	20	21.2	106	70-130	
p-Isopropyltoluene	ug/L	ND	20	20.7	104	70-130	
Styrene	ug/L	ND	20	20.3	102	70-130	
Tetrachloroethene	ug/L	ND	20	20.7	103	70-130	
Toluene	ug/L	ND	20	22.2	111	70-130	
trans-1,2-Dichloroethene	ug/L	ND	20	23.3	117	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	21.0	105	70-130	
Trichloroethene	ug/L	ND	20	21.6	108	70-130	
Trichlorofluoromethane	ug/L	ND	20	26.3	132	70-130	M1
Vinyl acetate	ug/L	ND	40	41.8	105	70-130	
Vinyl chloride	ug/L	ND	20	22.4	112	70-130	
Xylene (Total)	ug/L	ND	60	64.3	107	70-130	
1,2-Dichloroethane-d4 (S)	%				107	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2455474

Parameter	Units	92410843010	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	1.0J	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	4.2J	5.1		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	13.0J	17.3J		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

SAMPLE DUPLICATE: 2455474

Parameter	Units	92410843010 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	1.7		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	108	109	1		
4-Bromofluorobenzene (S)	%	99	99	0		
Toluene-d8 (S)	%	102	99	3		

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

QC Batch: 448475 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92410726001, 92410726002, 92410726003, 92410726004, 92410726006, 92410726007

METHOD BLANK: 2456444 Matrix: Water
Associated Lab Samples: 92410726001, 92410726002, 92410726003, 92410726004, 92410726006, 92410726007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.33	12/20/18 11:47	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.48	12/20/18 11:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.40	12/20/18 11:47	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.29	12/20/18 11:47	
1,1-Dichloroethane	ug/L	ND	1.0	0.32	12/20/18 11:47	
1,1-Dichloroethene	ug/L	ND	1.0	0.56	12/20/18 11:47	
1,1-Dichloropropene	ug/L	ND	1.0	0.49	12/20/18 11:47	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.33	12/20/18 11:47	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.41	12/20/18 11:47	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.35	12/20/18 11:47	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	2.0	12/20/18 11:47	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.30	12/20/18 11:47	
1,2-Dichloroethane	ug/L	ND	1.0	0.24	12/20/18 11:47	
1,2-Dichloropropane	ug/L	ND	1.0	0.27	12/20/18 11:47	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.24	12/20/18 11:47	
1,3-Dichloropropane	ug/L	ND	1.0	0.28	12/20/18 11:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.33	12/20/18 11:47	
2,2-Dichloropropane	ug/L	ND	1.0	0.13	12/20/18 11:47	
2-Butanone (MEK)	ug/L	ND	5.0	0.96	12/20/18 11:47	
2-Chlorotoluene	ug/L	ND	1.0	0.35	12/20/18 11:47	
2-Hexanone	ug/L	ND	5.0	0.46	12/20/18 11:47	
4-Chlorotoluene	ug/L	ND	1.0	0.31	12/20/18 11:47	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	0.33	12/20/18 11:47	
Acetone	ug/L	ND	25.0	10.0	12/20/18 11:47	
Benzene	ug/L	ND	1.0	0.25	12/20/18 11:47	
Bromobenzene	ug/L	ND	1.0	0.30	12/20/18 11:47	
Bromochloromethane	ug/L	ND	1.0	0.17	12/20/18 11:47	
Bromodichloromethane	ug/L	ND	1.0	0.18	12/20/18 11:47	
Bromoform	ug/L	ND	1.0	0.26	12/20/18 11:47	
Bromomethane	ug/L	ND	5.0	0.29	12/20/18 11:47	
Carbon tetrachloride	ug/L	ND	1.0	0.25	12/20/18 11:47	
Chlorobenzene	ug/L	ND	1.0	0.23	12/20/18 11:47	
Chloroethane	ug/L	ND	1.0	0.54	12/20/18 11:47	
Chloroform	ug/L	ND	1.0	0.14	12/20/18 11:47	
Chloromethane	ug/L	ND	1.0	0.11	12/20/18 11:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.19	12/20/18 11:47	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.13	12/20/18 11:47	
Dibromochloromethane	ug/L	ND	1.0	0.21	12/20/18 11:47	
Dibromomethane	ug/L	ND	1.0	0.21	12/20/18 11:47	
Dichlorodifluoromethane	ug/L	ND	1.0	0.21	12/20/18 11:47	
Diisopropyl ether	ug/L	ND	1.0	0.12	12/20/18 11:47	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

METHOD BLANK: 2456444

Matrix: Water

Associated Lab Samples: 92410726001, 92410726002, 92410726003, 92410726004, 92410726006, 92410726007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	1.0	0.30	12/20/18 11:47	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.71	12/20/18 11:47	
m&p-Xylene	ug/L	ND	2.0	0.66	12/20/18 11:47	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	12/20/18 11:47	
Methylene Chloride	ug/L	ND	2.0	0.97	12/20/18 11:47	
Naphthalene	ug/L	ND	1.0	0.24	12/20/18 11:47	
o-Xylene	ug/L	ND	1.0	0.23	12/20/18 11:47	
p-Isopropyltoluene	ug/L	ND	1.0	0.31	12/20/18 11:47	
Styrene	ug/L	ND	1.0	0.26	12/20/18 11:47	
Tetrachloroethene	ug/L	ND	1.0	0.46	12/20/18 11:47	
Toluene	ug/L	ND	1.0	0.26	12/20/18 11:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.49	12/20/18 11:47	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.26	12/20/18 11:47	
Trichloroethene	ug/L	ND	1.0	0.47	12/20/18 11:47	
Trichlorofluoromethane	ug/L	ND	1.0	0.20	12/20/18 11:47	
Vinyl acetate	ug/L	ND	2.0	0.35	12/20/18 11:47	
Vinyl chloride	ug/L	ND	1.0	0.62	12/20/18 11:47	
Xylene (Total)	ug/L	ND	1.0	1.0	12/20/18 11:47	
1,2-Dichloroethane-d4 (S)	%	99	70-130		12/20/18 11:47	
4-Bromofluorobenzene (S)	%	101	70-130		12/20/18 11:47	
Toluene-d8 (S)	%	105	70-130		12/20/18 11:47	

LABORATORY CONTROL SAMPLE: 2456445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.8	100	70-130	
1,1,1-Trichloroethane	ug/L	50	48.8	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.9	98	70-130	
1,1,2-Trichloroethane	ug/L	50	48.5	97	70-130	
1,1-Dichloroethane	ug/L	50	47.0	94	70-130	
1,1-Dichloroethene	ug/L	50	48.0	96	70-130	
1,1-Dichloropropene	ug/L	50	48.8	98	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.7	101	70-130	
1,2,3-Trichloropropane	ug/L	50	48.7	97	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.5	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.1	92	70-130	
1,2-Dichlorobenzene	ug/L	50	48.3	97	70-130	
1,2-Dichloroethane	ug/L	50	45.1	90	70-130	
1,2-Dichloropropane	ug/L	50	47.1	94	70-130	
1,3-Dichlorobenzene	ug/L	50	47.2	94	70-130	
1,3-Dichloropropane	ug/L	50	49.2	98	70-130	
1,4-Dichlorobenzene	ug/L	50	45.8	92	70-130	
2,2-Dichloropropane	ug/L	50	48.6	97	70-130	
2-Butanone (MEK)	ug/L	100	106	106	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

LABORATORY CONTROL SAMPLE: 2456445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	50	47.7	95	70-130	
2-Hexanone	ug/L	100	113	113	70-130	
4-Chlorotoluene	ug/L	50	48.2	96	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-130	
Acetone	ug/L	100	103	103	70-130	
Benzene	ug/L	50	48.1	96	70-130	
Bromobenzene	ug/L	50	48.6	97	70-130	
Bromochloromethane	ug/L	50	45.0	90	70-130	
Bromodichloromethane	ug/L	50	46.3	93	70-130	
Bromoform	ug/L	50	42.0	84	70-130	
Bromomethane	ug/L	50	61.2	122	70-130	
Carbon tetrachloride	ug/L	50	48.5	97	70-130	
Chlorobenzene	ug/L	50	46.8	94	70-130	
Chloroethane	ug/L	50	47.9	96	70-130	
Chloroform	ug/L	50	44.4	89	70-130	
Chloromethane	ug/L	50	67.6	135	70-130	L1
cis-1,2-Dichloroethene	ug/L	50	48.2	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.0	100	70-130	
Dibromochloromethane	ug/L	50	51.8	104	70-130	
Dibromomethane	ug/L	50	45.5	91	70-130	
Dichlorodifluoromethane	ug/L	50	91.8	184	70-130	L1
Diisopropyl ether	ug/L	50	51.0	102	70-130	
Ethylbenzene	ug/L	50	48.5	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	50.7	101	70-130	
m&p-Xylene	ug/L	100	96.8	97	70-130	
Methyl-tert-butyl ether	ug/L	50	51.1	102	70-130	
Methylene Chloride	ug/L	50	48.7	97	70-130	
Naphthalene	ug/L	50	52.6	105	70-130	
o-Xylene	ug/L	50	49.6	99	70-130	
p-Isopropyltoluene	ug/L	50	50.3	101	70-130	
Styrene	ug/L	50	50.0	100	70-130	
Tetrachloroethene	ug/L	50	49.3	99	70-130	
Toluene	ug/L	50	45.1	90	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.2	100	70-130	
Trichloroethene	ug/L	50	47.3	95	70-130	
Trichlorofluoromethane	ug/L	50	44.5	89	70-130	
Vinyl acetate	ug/L	100	111	111	70-130	
Vinyl chloride	ug/L	50	57.8	116	70-130	
Xylene (Total)	ug/L	150	146	98	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			97	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Parameter	Units	2456446		2456447		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.4	21.0	102	105	70-130	3	30		
1,1,1-Trichloroethane	ug/L	ND	20	20	22.1	22.1	111	110	70-130	0	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.8	21.2	99	106	70-130	7	30		
1,1,2-Trichloroethane	ug/L	ND	20	20	20.2	21.9	101	110	70-130	8	30		
1,1-Dichloroethane	ug/L	ND	20	20	21.4	21.4	107	107	70-130	0	30		
1,1-Dichloroethene	ug/L	ND	20	20	23.4	22.9	117	114	70-130	2	30		
1,1-Dichloropropene	ug/L	ND	20	20	20.4	20.4	102	102	70-130	0	30		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.8	20.0	99	100	70-130	1	30		
1,2,3-Trichloropropane	ug/L	ND	20	20	20.4	21.2	102	106	70-130	4	30		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.1	20.4	101	102	70-130	1	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.2	21.7	106	109	70-130	3	30		
1,2-Dichlorobenzene	ug/L	ND	20	20	19.6	19.7	98	98	70-130	0	30		
1,2-Dichloroethane	ug/L	ND	20	20	19.7	20.3	99	102	70-130	3	30		
1,2-Dichloropropane	ug/L	ND	20	20	20.6	20.9	103	105	70-130	2	30		
1,3-Dichlorobenzene	ug/L	ND	20	20	19.5	20.5	98	102	70-130	5	30		
1,3-Dichloropropane	ug/L	ND	20	20	20.1	21.2	101	106	70-130	5	30		
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	19.9	101	100	70-130	2	30		
2,2-Dichloropropane	ug/L	ND	20	20	21.5	21.7	107	109	70-130	1	30		
2-Butanone (MEK)	ug/L	ND	40	40	45.3	45.6	113	114	70-130	1	30		
2-Chlorotoluene	ug/L	ND	20	20	20.6	21.0	103	105	70-130	2	30		
2-Hexanone	ug/L	ND	40	40	42.3	44.4	106	111	70-130	5	30		
4-Chlorotoluene	ug/L	ND	20	20	20.5	20.8	102	104	70-130	2	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	41.9	42.4	105	106	70-130	1	30		
Acetone	ug/L	ND	40	40	43.5	44.2	109	111	70-130	2	30		
Benzene	ug/L	ND	20	20	21.2	21.4	106	107	70-130	1	30		
Bromobenzene	ug/L	ND	20	20	20.5	21.1	102	105	70-130	3	30		
Bromochloromethane	ug/L	ND	20	20	21.7	21.4	109	107	70-130	2	30		
Bromodichloromethane	ug/L	ND	20	20	20.3	21.0	102	105	70-130	3	30		
Bromoform	ug/L	ND	20	20	18.4	20.2	92	101	70-130	9	30		
Bromomethane	ug/L	ND	20	20	20.4	21.2	102	106	70-130	4	30		
Carbon tetrachloride	ug/L	ND	20	20	21.2	22.0	106	110	70-130	4	30		
Chlorobenzene	ug/L	ND	20	20	19.8	21.4	99	107	70-130	8	30		
Chloroethane	ug/L	ND	20	20	24.3	22.2	122	111	70-130	9	30		
Chloroform	ug/L	ND	20	20	22.1	21.9	110	110	70-130	1	30		
Chloromethane	ug/L	ND	20	20	31.2	31.3	156	156	70-130	0	30	MO	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.1	21.7	106	108	70-130	3	30		
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.2	21.2	101	106	70-130	5	30		
Dibromochloromethane	ug/L	ND	20	20	19.6	21.6	98	108	70-130	10	30		
Dibromomethane	ug/L	ND	20	20	20.2	20.7	101	103	70-130	2	30		
Dichlorodifluoromethane	ug/L	ND	20	20	44.2	42.8	221	214	70-130	3	30	MO	
Diisopropyl ether	ug/L	ND	20	20	21.2	21.4	106	107	70-130	1	30		
Ethylbenzene	ug/L	ND	20	20	20.2	21.4	101	107	70-130	6	30		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20.6	21.2	103	106	70-130	3	30		
m&p-Xylene	ug/L	ND	40	40	41.7	43.3	104	108	70-130	4	30		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Parameter	Units	2456446		2456447		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92410726003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Methyl-tert-butyl ether	ug/L	ND	20	20	20.9	21.0	105	105	70-130	0	30	
Methylene Chloride	ug/L	ND	20	20	21.3	21.7	106	109	70-130	2	30	
Naphthalene	ug/L	ND	20	20	20.1	20.0	100	100	70-130	0	30	
o-Xylene	ug/L	ND	20	20	20.9	22.1	104	110	70-130	6	30	
p-Isopropyltoluene	ug/L	ND	20	20	20.3	20.1	102	100	70-130	1	30	
Styrene	ug/L	ND	20	20	20.0	20.9	100	105	70-130	4	30	
Tetrachloroethene	ug/L	ND	20	20	20.2	21.6	101	108	70-130	7	30	
Toluene	ug/L	ND	20	20	20.7	20.9	103	104	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	22.4	111	112	70-130	1	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.3	20.9	102	105	70-130	3	30	
Trichloroethene	ug/L	ND	20	20	20.7	20.9	103	105	70-130	1	30	
Trichlorofluoromethane	ug/L	ND	20	20	22.9	23.0	115	115	70-130	1	30	
Vinyl acetate	ug/L	ND	40	40	43.2	42.8	108	107	70-130	1	30	
Vinyl chloride	ug/L	ND	20	20	25.6	24.9	128	125	70-130	3	30	
Xylene (Total)	ug/L	ND	60	60	62.5	65.4	104	109	70-130	4	30	
1,2-Dichloroethane-d4 (S)	%						106	103	70-130			
4-Bromofluorobenzene (S)	%						96	102	70-130			
Toluene-d8 (S)	%						99	101	70-130			

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

QC Batch: 447869 Analysis Method: EPA 8270D
QC Batch Method: EPA 3510C Analysis Description: 8270 Water MSSV SC
Associated Lab Samples: 92410726001, 92410726002, 92410726003, 92410726004, 92410726006, 92410726007

METHOD BLANK: 2453803 Matrix: Water
Associated Lab Samples: 92410726001, 92410726002, 92410726003, 92410726004, 92410726006, 92410726007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	1.4	12/18/18 15:23	
1,2-Dichlorobenzene	ug/L	ND	10.0	1.5	12/18/18 15:23	
1,3-Dichlorobenzene	ug/L	ND	10.0	1.4	12/18/18 15:23	
1,4-Dichlorobenzene	ug/L	ND	10.0	1.4	12/18/18 15:23	
1-Methylnaphthalene	ug/L	ND	10.0	1.4	12/18/18 15:23	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	1.8	12/18/18 15:23	
2,4,5-Trichlorophenol	ug/L	ND	10.0	1.5	12/18/18 15:23	
2,4,6-Trichlorophenol	ug/L	ND	10.0	1.4	12/18/18 15:23	
2,4-Dichlorophenol	ug/L	ND	10.0	1.6	12/18/18 15:23	
2,4-Dimethylphenol	ug/L	ND	10.0	1.6	12/18/18 15:23	
2,4-Dinitrophenol	ug/L	ND	50.0	5.1	12/18/18 15:23	
2,4-Dinitrotoluene	ug/L	ND	10.0	1.5	12/18/18 15:23	
2,6-Dinitrotoluene	ug/L	ND	10.0	1.4	12/18/18 15:23	
2-Chloronaphthalene	ug/L	ND	10.0	1.6	12/18/18 15:23	
2-Chlorophenol	ug/L	ND	10.0	1.5	12/18/18 15:23	
2-Methylnaphthalene	ug/L	ND	10.0	1.4	12/18/18 15:23	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	1.6	12/18/18 15:23	
2-Nitroaniline	ug/L	ND	50.0	2.3	12/18/18 15:23	
2-Nitrophenol	ug/L	ND	10.0	1.6	12/18/18 15:23	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	1.4	12/18/18 15:23	
3,3'-Dichlorobenzidine	ug/L	ND	50.0	3.9	12/18/18 15:23	
3-Nitroaniline	ug/L	ND	50.0	2.7	12/18/18 15:23	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	2.2	12/18/18 15:23	
4-Bromophenylphenyl ether	ug/L	ND	10.0	1.5	12/18/18 15:23	
4-Chloro-3-methylphenol	ug/L	ND	20.0	2.8	12/18/18 15:23	
4-Chloroaniline	ug/L	ND	50.0	2.8	12/18/18 15:23	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	1.6	12/18/18 15:23	
4-Nitroaniline	ug/L	ND	50.0	3.4	12/18/18 15:23	
4-Nitrophenol	ug/L	ND	50.0	4.3	12/18/18 15:23	
Acenaphthene	ug/L	ND	10.0	1.6	12/18/18 15:23	
Acenaphthylene	ug/L	ND	10.0	1.5	12/18/18 15:23	
Aniline	ug/L	ND	10.0	1.2	12/18/18 15:23	
Anthracene	ug/L	ND	10.0	1.7	12/18/18 15:23	
Benzo(a)anthracene	ug/L	ND	10.0	2.1	12/18/18 15:23	
Benzo(a)pyrene	ug/L	ND	10.0	2.2	12/18/18 15:23	
Benzo(b)fluoranthene	ug/L	ND	10.0	2.2	12/18/18 15:23	
Benzo(g,h,i)perylene	ug/L	ND	10.0	2.1	12/18/18 15:23	
Benzo(k)fluoranthene	ug/L	ND	10.0	2.0	12/18/18 15:23	
Benzoic Acid	ug/L	ND	50.0	5.0	12/18/18 15:23	
Benzyl alcohol	ug/L	ND	20.0	3.1	12/18/18 15:23	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	1.6	12/18/18 15:23	

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

METHOD BLANK: 2453803

Matrix: Water

Associated Lab Samples: 92410726001, 92410726002, 92410726003, 92410726004, 92410726006, 92410726007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/L	ND	10.0	1.7	12/18/18 15:23	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	2.3	12/18/18 15:23	
Butylbenzylphthalate	ug/L	ND	10.0	2.5	12/18/18 15:23	
Chrysene	ug/L	ND	10.0	2.1	12/18/18 15:23	
Di-n-butylphthalate	ug/L	ND	10.0	2.0	12/18/18 15:23	
Di-n-octylphthalate	ug/L	ND	10.0	1.5	12/18/18 15:23	
Dibenz(a,h)anthracene	ug/L	ND	10.0	2.0	12/18/18 15:23	
Dibenzofuran	ug/L	ND	10.0	1.7	12/18/18 15:23	
Diethylphthalate	ug/L	ND	10.0	1.6	12/18/18 15:23	
Dimethylphthalate	ug/L	ND	10.0	1.4	12/18/18 15:23	
Fluoranthene	ug/L	ND	10.0	2.2	12/18/18 15:23	
Fluorene	ug/L	ND	10.0	1.6	12/18/18 15:23	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	1.6	12/18/18 15:23	
Hexachlorobenzene	ug/L	ND	10.0	1.7	12/18/18 15:23	
Hexachlorocyclopentadiene	ug/L	ND	10.0	1.3	12/18/18 15:23	
Hexachloroethane	ug/L	ND	10.0	1.8	12/18/18 15:23	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	2.0	12/18/18 15:23	
Isophorone	ug/L	ND	10.0	1.5	12/18/18 15:23	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	1.7	12/18/18 15:23	
N-Nitrosodimethylamine	ug/L	ND	10.0	1.6	12/18/18 15:23	
N-Nitrosodiphenylamine	ug/L	ND	10.0	1.4	12/18/18 15:23	
Naphthalene	ug/L	ND	10.0	1.4	12/18/18 15:23	
Nitrobenzene	ug/L	ND	10.0	1.6	12/18/18 15:23	
Pentachlorophenol	ug/L	ND	50.0	3.5	12/18/18 15:23	
Phenanthrene	ug/L	ND	10.0	1.6	12/18/18 15:23	
Phenol	ug/L	ND	10.0	1.3	12/18/18 15:23	
Pyrene	ug/L	ND	10.0	2.2	12/18/18 15:23	
2,4,6-Tribromophenol (S)	%	60	27-110		12/18/18 15:23	
2-Fluorobiphenyl (S)	%	49	27-110		12/18/18 15:23	
2-Fluorophenol (S)	%	28	12-110		12/18/18 15:23	
Nitrobenzene-d5 (S)	%	51	21-110		12/18/18 15:23	
Phenol-d6 (S)	%	20	10-110		12/18/18 15:23	
Terphenyl-d14 (S)	%	62	31-107		12/18/18 15:23	

LABORATORY CONTROL SAMPLE: 2453804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	27.4	55	70-130	
1,2-Dichlorobenzene	ug/L	50	26.0	52	70-130	
1,3-Dichlorobenzene	ug/L	50	24.5	49	70-130	
1,4-Dichlorobenzene	ug/L	50	26.4	53	70-130	
1-Methylnaphthalene	ug/L	50	34.4	69	70-130	
2,2'-Oxybis(1-chloropropane)	ug/L	50	32.2	64	70-130	
2,4,5-Trichlorophenol	ug/L	50	36.6	73	70-130	

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

LABORATORY CONTROL SAMPLE: 2453804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/L	50	38.6	77	70-130	
2,4-Dichlorophenol	ug/L	50	34.5	69	70-130	
2,4-Dimethylphenol	ug/L	50	30.8	62	70-130	
2,4-Dinitrophenol	ug/L	250	198	79	70-130	
2,4-Dinitrotoluene	ug/L	50	44.1	88	70-130	
2,6-Dinitrotoluene	ug/L	50	44.5	89	70-130	
2-Chloronaphthalene	ug/L	50	34.0	68	70-130	
2-Chlorophenol	ug/L	50	30.7	61	70-130	
2-Methylnaphthalene	ug/L	50	34.3	69	70-130	
2-Methylphenol(o-Cresol)	ug/L	50	26.7	53	70-130	
2-Nitroaniline	ug/L	100	76.3	76	70-130	
2-Nitrophenol	ug/L	50	37.1	74	70-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	23.7	47	70-130	
3,3'-Dichlorobenzidine	ug/L	100	42.2J	42	70-130	
3-Nitroaniline	ug/L	100	61.1	61	70-130	
4,6-Dinitro-2-methylphenol	ug/L	100	107	107	70-130	
4-Bromophenylphenyl ether	ug/L	50	43.8	88	70-130	
4-Chloro-3-methylphenol	ug/L	100	69.7	70	70-130	
4-Chloroaniline	ug/L	100	46.9J	47	70-130	
4-Chlorophenylphenyl ether	ug/L	50	39.5	79	70-130	
4-Nitroaniline	ug/L	100	74.1	74	70-130	
4-Nitrophenol	ug/L	250	85.8	34	70-130	
Acenaphthene	ug/L	50	39.5	79	70-130	
Acenaphthylene	ug/L	50	41.0	82	70-130	
Aniline	ug/L	50	17.2	34	70-130	
Anthracene	ug/L	50	46.3	93	70-130	
Benzo(a)anthracene	ug/L	50	47.7	95	70-130	
Benzo(a)pyrene	ug/L	50	46.8	94	70-130	
Benzo(b)fluoranthene	ug/L	50	47.0	94	70-130	
Benzo(g,h,i)perylene	ug/L	50	47.2	94	70-130	
Benzo(k)fluoranthene	ug/L	50	46.3	93	70-130	
Benzoic Acid	ug/L	250	28.7J	11	70-130	
Benzyl alcohol	ug/L	100	56.4	56	70-130	
bis(2-Chloroethoxy)methane	ug/L	50	34.2	68	70-130	
bis(2-Chloroethyl) ether	ug/L	50	35.0	70	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	50	46.1	92	70-130	
Butylbenzylphthalate	ug/L	50	46.5	93	70-130	
Chrysene	ug/L	50	46.3	93	70-130	
Di-n-butylphthalate	ug/L	50	45.0	90	70-130	
Di-n-octylphthalate	ug/L	50	49.4	99	70-130	
Dibenz(a,h)anthracene	ug/L	50	45.7	91	70-130	
Dibenzofuran	ug/L	50	37.7	75	70-130	
Diethylphthalate	ug/L	50	41.8	84	70-130	
Dimethylphthalate	ug/L	50	40.8	82	70-130	
Fluoranthene	ug/L	50	47.0	94	70-130	
Fluorene	ug/L	50	42.1	84	70-130	
Hexachloro-1,3-butadiene	ug/L	50	23.8	48	70-130	

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357
Pace Project No.: 92410726

LABORATORY CONTROL SAMPLE: 2453804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	ug/L	50	43.4	87	70-130	
Hexachlorocyclopentadiene	ug/L	50	28.6	57	70-130	
Hexachloroethane	ug/L	50	24.5	49	70-130	
Indeno(1,2,3-cd)pyrene	ug/L	50	47.6	95	70-130	
Isophorone	ug/L	50	32.2	64	70-130	
N-Nitroso-di-n-propylamine	ug/L	50	34.1	68	70-130	
N-Nitrosodimethylamine	ug/L	50	20.6	41	70-130	
N-Nitrosodiphenylamine	ug/L	50	44.0	88	70-130	
Naphthalene	ug/L	50	33.6	67	70-130	
Nitrobenzene	ug/L	50	33.5	67	70-130	
Pentachlorophenol	ug/L	100	78.3	78	70-130	
Phenanthrene	ug/L	50	45.6	91	70-130	
Phenol	ug/L	50	14.0	28	70-130	1g,2g
Pyrene	ug/L	50	47.1	94	70-130	
2,4,6-Tribromophenol (S)	%			93	27-110	
2-Fluorobiphenyl (S)	%			64	27-110	
2-Fluorophenol (S)	%			36	12-110	
Nitrobenzene-d5 (S)	%			65	21-110	
Phenol-d6 (S)	%			26	10-110	
Terphenyl-d14 (S)	%			60	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2453805 2453806

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92410726003 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2,4-Trichlorobenzene	ug/L	ND	50	50	25.7	21.5	51	43	70-130	18	30	
1,2-Dichlorobenzene	ug/L	ND	50	50	24.0	21.8	48	44	70-130	10	30	
1,3-Dichlorobenzene	ug/L	ND	50	50	22.5	20.5	45	41	70-130	9	30	
1,4-Dichlorobenzene	ug/L	ND	50	50	24.8	22.1	50	44	70-130	12	30	
1-Methylnaphthalene	ug/L	ND	50	50	33.6	28.3	67	57	70-130	17	30	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	50	27.4	23.9	55	48	70-130	13	30	
2,4,5-Trichlorophenol	ug/L	ND	50	50	35.4	28.2	71	56	70-130	23	30	
2,4,6-Trichlorophenol	ug/L	ND	50	50	37.9	30.1	76	60	70-130	23	30	
2,4-Dichlorophenol	ug/L	ND	50	50	31.6	24.7	63	49	70-130	24	30	
2,4-Dimethylphenol	ug/L	ND	50	50	29.9	23.1	60	46	70-130	26	3	
2,4-Dinitrophenol	ug/L	ND	250	250	213	176	85	70	70-130	19	30	
2,4-Dinitrotoluene	ug/L	ND	50	50	43.2	37.2	86	74	70-130	15	30	
2,6-Dinitrotoluene	ug/L	ND	50	50	44.2	37.5	88	75	70-130	17	30	
2-Chloronaphthalene	ug/L	ND	50	50	32.8	27.6	66	55	70-130	17	30	
2-Chlorophenol	ug/L	ND	50	50	25.0	20.9	50	42	70-130	18	30	
2-Methylnaphthalene	ug/L	ND	50	50	33.1	27.8	66	56	70-130	17	30	
2-Methylphenol(o-Cresol)	ug/L	ND	50	50	23.1	19.2	46	38	70-130	19	30	
2-Nitroaniline	ug/L	ND	100	100	77.5	65.6	77	66	70-130	17	30	
2-Nitrophenol	ug/L	ND	50	50	32.7	25.7	65	51	70-130	24	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Parameter	Units	2453805		2453806		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92410726003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	50	20.9	17.6	42	35	70-130	17	30	
3,3'-Dichlorobenzidine	ug/L	ND	100	100	39.4J	43.3J	39	43	70-130		30	
3-Nitroaniline	ug/L	ND	100	100	64.8	59.4	65	59	70-130	9	30	
4,6-Dinitro-2-methylphenol	ug/L	ND	100	100	100	81.7	100	82	70-130	21	30	
4-Bromophenylphenyl ether	ug/L	ND	50	50	41.1	34.3	82	69	70-130	18	30	
4-Chloro-3-methylphenol	ug/L	ND	100	100	69.1	55.5	69	55	70-130	22	30	
4-Chloroaniline	ug/L	ND	100	100	42.9J	39.0J	43	39	70-130		30	
4-Chlorophenylphenyl ether	ug/L	ND	50	50	38.5	32.6	77	65	70-130	17	30	
4-Nitroaniline	ug/L	ND	100	100	76.0	65.8	76	66	70-130	14	30	
4-Nitrophenol	ug/L	ND	250	250	87.2	75.1	35	30	70-130	15	30	
Acenaphthene	ug/L	2.8J	50	50	41.9	35.6	78	66	70-130	16	30	
Acenaphthylene	ug/L	ND	50	50	40.2	34.2	80	68	70-130	16	30	
Aniline	ug/L	ND	50	50	14.9	14.8	30	30	70-130	1	30	
Anthracene	ug/L	ND	50	50	43.5	36.8	87	74	70-130	17	30	
Benzo(a)anthracene	ug/L	ND	50	50	42.9	38.2	86	76	70-130	12	30	
Benzo(a)pyrene	ug/L	ND	50	50	43.7	37.3	87	75	70-130	16	30	
Benzo(b)fluoranthene	ug/L	ND	50	50	42.5	36.5	85	73	70-130	15	30	
Benzo(g,h,i)perylene	ug/L	ND	50	50	42.7	35.9	85	72	70-130	17	30	
Benzo(k)fluoranthene	ug/L	ND	50	50	43.2	37.4	86	75	70-130	14	30	
Benzoic Acid	ug/L	ND	250	250	79.2	56.6	32	23	70-130	33	0	
Benzyl alcohol	ug/L	ND	100	100	49.9	43.7	50	44	70-130	13	30	
bis(2-Chloroethoxy)methane	ug/L	ND	50	50	32.2	26.2	64	52	70-130	20	30	
bis(2-Chloroethyl) ether	ug/L	ND	50	50	28.5	25.5	57	51	70-130	11	30	
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	50	41.4	36.0	83	72	70-130	14	30	
Butylbenzylphthalate	ug/L	ND	50	50	42.5	36.8	85	74	70-130	14	30	
Chrysene	ug/L	ND	50	50	43.0	37.3	86	75	70-130	14	30	
Di-n-butylphthalate	ug/L	ND	50	50	41.5	35.5	83	71	70-130	16	30	
Di-n-octylphthalate	ug/L	ND	50	50	44.4	38.1	89	76	70-130	15	30	
Dibenz(a,h)anthracene	ug/L	ND	50	50	43.5	36.7	87	73	70-130	17	30	
Dibenzofuran	ug/L	ND	50	50	37.3	31.4	75	63	70-130	17	30	
Diethylphthalate	ug/L	ND	50	50	40.9	35.2	82	70	70-130	15	30	
Dimethylphthalate	ug/L	ND	50	50	40.0	33.3	80	67	70-130	18	30	
Fluoranthene	ug/L	ND	50	50	44.5	38.3	89	77	70-130	15	30	
Fluorene	ug/L	ND	50	50	41.5	35.6	83	71	70-130	15	30	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	22.0	17.5	44	35	70-130	23	30	
Hexachlorobenzene	ug/L	ND	50	50	40.2	34.1	80	68	70-130	16	30	
Hexachlorocyclopentadiene	ug/L	ND	50	50	25.9	20.2	52	40	70-130	25	30	
Hexachloroethane	ug/L	ND	50	50	22.8	20.3	46	41	70-130	11	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	50	42.9	36.9	86	74	70-130	15	30	
Isophorone	ug/L	ND	50	50	31.0	26.3	62	53	70-130	17	30	
N-Nitroso-di-n-propylamine	ug/L	ND	50	50	31.4	27.9	63	56	70-130	12	30	
N-Nitrosodimethylamine	ug/L	ND	50	50	19.2	16.9	38	34	70-130	13	30	
N-Nitrosodiphenylamine	ug/L	ND	50	50	41.5	36.9	83	74	70-130	12	30	
Naphthalene	ug/L	ND	50	50	31.4	26.1	63	52	70-130	18	30	
Nitrobenzene	ug/L	ND	50	50	30.9	25.7	62	51	70-130	18	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Parameter	Units	2453805		2453806		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Pentachlorophenol	ug/L	ND	100	100	76.8	62.0	77	62	70-130	21	30	
Phenanthrene	ug/L	ND	50	50	43.1	37.1	86	74	70-130	15	30	
Phenol	ug/L	ND	50	50	13.1	11.2	26	22	70-130	15	30	
Pyrene	ug/L	ND	50	50	42.7	38.4	85	77	70-130	11	30	
2,4,6-Tribromophenol (S)	%						85	70	27-110			
2-Fluorobiphenyl (S)	%						62	51	27-110			
2-Fluorophenol (S)	%						31	26	12-110			
Nitrobenzene-d5 (S)	%						60	48	21-110			
Phenol-d6 (S)	%						22	20	10-110			
Terphenyl-d14 (S)	%						38	24	31-107			

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QUALIFIERS

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g Comment apply to all compounds outside control limits.

2g Recovery did not meet 70-130% South Carolina required limits. Recovery meets method required in-house generated control limits.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORMER BRAMLETTE MGP J18120357

Pace Project No.: 92410726

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92410726001	MW-30S	EPA 3510C	447869	EPA 8270D	448300
92410726002	MW-30S DUP	EPA 3510C	447869	EPA 8270D	448300
92410726003	MW-31S MS/MSD	EPA 3510C	447869	EPA 8270D	448300
92410726004	MW-31 TZ	EPA 3510C	447869	EPA 8270D	448300
92410726006	EQB	EPA 3510C	447869	EPA 8270D	448300
92410726007	FB 1	EPA 3510C	447869	EPA 8270D	448300
92410726001	MW-30S	EPA 8260B	448475		
92410726002	MW-30S DUP	EPA 8260B	448475		
92410726003	MW-31S MS/MSD	EPA 8260B	448475		
92410726004	MW-31 TZ	EPA 8260B	448475		
92410726005	TRIP BLANK	EPA 8260B	448278		
92410726006	EQB	EPA 8260B	448475		
92410726007	FB 1	EPA 8260B	448475		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name:

Synterra

Project

WO# : 92410726



92410726

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Date/Initials Person Examining Contents: 12/13 AR

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 93-7046 Type of Ice: Wet Blue None

Biological Tissue Frozen?
 Yes No N/A

Cooler Temp (°C): 2.3 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 2.3

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	9.
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project

WO# : 92410726

PM: KLH1

Due Date: 12/20/18

CLIENT: 92-Duke Ener

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A	Section B	Section C	Page: 1 Of 1
Required Client Information:	Required Project Information:	Invoice Information:	
Company: Synterra	Report To: Heather Smith	Attention:	
Address: 148 River street	Copy To:	Company Name:	
Suite 220, Greenville, SC 29601		Address:	
Email:	Purchase Order #:	Pace Quote#:	
Phone:	Project Name: Former Bramlette MGP Site	Pace Project Manager: kevin.herring@pacelabs.com	
Fax:	Project #:	Pace Profile #: 7754	
Requested Due Date:		State / Location	SC
		Regulatory Agency	

ITEM #	MATRIX CODE <small>DW Drinking Water WT Waste Water WW Wastewater P Product SL Soil/Solid OL Oil WP Wipe AR Air OT Other TS Tissue</small>	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							Analyses Test Y/N	8260	8270 SVOC	Trip BLANK	Residual Chlorine (Y/N)
			START DATE	END DATE			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other					
1	MW-305	MW	12/12/18	1410		5	X							X	X		001	
2	MW-305 Dup	MW	12/12/18	1410		5	X							X	X		002	
3	MW-315	MW	12/12/18	1153		5	X							X	X		003	
4	MW-315 MS/MSD	MW	12/12/18	1153		5	X							X	X		004	
5	MW-317Z	MW	12/12/18	1254		5	X							X	X		005	
6	Trip Blank	WT	12/12/18	1250		2									X		606	
7	EQB	WT	12/12/18	1455		6	X							X	X		007	
8	FB1	WT	12/12/18	1505		5	X							X	X			
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
	SIGNATURE	DATE	SIGNATURE	DATE	TEMP in C	Received on
	<i>[Signature]</i>	12-12-18 1605	<i>[Signature]</i>	12-12-18 1605		
	<i>[Signature]</i>	12-13-18 1310	A. Rucker / PACE / AVL	12-13-18 1310	2.3	Y N Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: <i>Tom King</i>	DATE Signed: 12/12/18
SIGNATURE of SAMPLER: <i>[Signature]</i>	

January 08, 2019

Program Manager
Duke Energy
13339 Hagers Ferry Road
Bldg. 7405 MG30A2
Huntersville, NC 28078

RE: Project: Former Bramlette MGP J18120520
Pace Project No.: 92411780

Dear Program Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Program Manager, Duke Energy
Mike Mastbaum
Todd Plating, Synterra
Rick Powell
B. Russo
Heather Smith



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92411780001	SW-7	Water	12/19/18 14:30	12/20/18 11:15
92411780002	SW-8	Water	12/19/18 14:00	12/20/18 11:15
92411780003	SW-9	Water	12/19/18 13:25	12/20/18 11:15
92411780004	SW-10	Water	12/19/18 12:50	12/20/18 11:15
92411780005	SW-11	Water	12/19/18 11:45	12/20/18 11:15
92411780006	SW-12 MS/MSD	Water	12/19/18 10:30	12/20/18 11:15
92411780007	SW-DUP1	Water	12/19/18 09:00	12/20/18 11:15
92411780008	FB-01	Water	12/19/18 15:00	12/20/18 11:15
92411780009	EQB-01	Water	12/19/18 16:00	12/20/18 11:15
92411780010	TRIP BLANK	Water	12/19/18 00:00	12/20/18 11:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92411780001	SW-7	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	GAW	62	PASI-C
92411780002	SW-8	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	GAW	62	PASI-C
92411780003	SW-9	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	GAW	62	PASI-C
92411780004	SW-10	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	GAW	62	PASI-C
92411780005	SW-11	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	GAW	62	PASI-C
92411780006	SW-12 MS/MSD	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	GAW	62	PASI-C
92411780007	SW-DUP1	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	GAW	62	PASI-C
92411780008	FB-01	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	GAW	62	PASI-C
92411780009	EQB-01	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	GAW	62	PASI-C
92411780010	TRIP BLANK	EPA 8260B	GAW	62	PASI-C

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Method: EPA 8270D

Description: 8270 MSSV Semivolatile Org SC

Client: Duke Energy

Date: January 08, 2019

General Information:

9 samples were analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 449049

S0: Surrogate recovery outside laboratory control limits.

- EQB-01 (Lab ID: 92411780009)
 - Terphenyl-d14 (S)
- FB-01 (Lab ID: 92411780008)
 - Terphenyl-d14 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Method: EPA 8270D

Description: 8270 MSSV Semivolatile Org SC

Client: Duke Energy

Date: January 08, 2019

Analyte Comments:

QC Batch: 449049

1g: Comment applies to all compounds outside control limits.

- LCS (Lab ID: 2459226)
- Phenol

2g: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Footnote applies to all recoveries exceeding QC limits.

- MS (Lab ID: 2459227)
- Phenol
- MSD (Lab ID: 2459228)
- Phenol

3g: Recovery did not meet 70-130% South Carolina required limits. Recovery meets method required in-house generated control limits.

- LCS (Lab ID: 2459226)
- Phenol

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Former Bramlette MGP J18120520
Pace Project No.: 92411780

Method: EPA 8260B
Description: 8260 MSV Low Level SC
Client: Duke Energy
Date: January 08, 2019

General Information:

10 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 449771

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92411780006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2462065)
- 2,2-Dichloropropane

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-7 **Lab ID: 92411780001** Collected: 12/19/18 14:30 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 12:48	83-32-9	
Acenaphthylene	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 12:48	208-96-8	
Aniline	ND	ug/L	9.6	1.2	1	12/21/18 12:23	12/24/18 12:48	62-53-3	
Anthracene	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 12:48	120-12-7	
Benzo(a)anthracene	ND	ug/L	9.6	2.0	1	12/21/18 12:23	12/24/18 12:48	56-55-3	
Benzo(a)pyrene	ND	ug/L	9.6	2.1	1	12/21/18 12:23	12/24/18 12:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	9.6	2.1	1	12/21/18 12:23	12/24/18 12:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	9.6	2.0	1	12/21/18 12:23	12/24/18 12:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	9.6	1.9	1	12/21/18 12:23	12/24/18 12:48	207-08-9	
Benzoic Acid	ND	ug/L	48.1	4.8	1	12/21/18 12:23	12/24/18 12:48	65-85-0	
Benzyl alcohol	ND	ug/L	19.2	3.0	1	12/21/18 12:23	12/24/18 12:48	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 12:48	101-55-3	
Butylbenzylphthalate	ND	ug/L	9.6	2.4	1	12/21/18 12:23	12/24/18 12:48	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	19.2	2.7	1	12/21/18 12:23	12/24/18 12:48	59-50-7	
4-Chloroaniline	ND	ug/L	48.1	2.7	1	12/21/18 12:23	12/24/18 12:48	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 12:48	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 12:48	111-44-4	
2-Chloronaphthalene	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 12:48	91-58-7	
2-Chlorophenol	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 12:48	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 12:48	7005-72-3	
Chrysene	ND	ug/L	9.6	2.0	1	12/21/18 12:23	12/24/18 12:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	9.6	2.0	1	12/21/18 12:23	12/24/18 12:48	53-70-3	
Dibenzofuran	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 12:48	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 12:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	9.6	1.3	1	12/21/18 12:23	12/24/18 12:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	9.6	1.3	1	12/21/18 12:23	12/24/18 12:48	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	48.1	3.7	1	12/21/18 12:23	12/24/18 12:48	91-94-1	
2,4-Dichlorophenol	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 12:48	120-83-2	
Diethylphthalate	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 12:48	84-66-2	
2,4-Dimethylphenol	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 12:48	105-67-9	
Dimethylphthalate	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 12:48	131-11-3	
Di-n-butylphthalate	ND	ug/L	9.6	1.9	1	12/21/18 12:23	12/24/18 12:48	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	19.2	2.2	1	12/21/18 12:23	12/24/18 12:48	534-52-1	
2,4-Dinitrophenol	ND	ug/L	48.1	4.9	1	12/21/18 12:23	12/24/18 12:48	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 12:48	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	9.6	1.3	1	12/21/18 12:23	12/24/18 12:48	606-20-2	
Di-n-octylphthalate	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 12:48	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.8	2.2	1	12/21/18 12:23	12/24/18 12:48	117-81-7	
Fluoranthene	ND	ug/L	9.6	2.1	1	12/21/18 12:23	12/24/18 12:48	206-44-0	
Fluorene	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 12:48	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 12:48	87-68-3	
Hexachlorobenzene	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 12:48	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	9.6	1.3	1	12/21/18 12:23	12/24/18 12:48	77-47-4	
Hexachloroethane	ND	ug/L	9.6	1.8	1	12/21/18 12:23	12/24/18 12:48	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	9.6	2.0	1	12/21/18 12:23	12/24/18 12:48	193-39-5	
Isophorone	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 12:48	78-59-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Sample Project No.: 92411780

Sample: SW-7 **Lab ID: 92411780001** Collected: 12/19/18 14:30 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
1-Methylnaphthalene	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 12:48	90-12-0	
2-Methylnaphthalene	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 12:48	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 12:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 12:48	15831-10-4	
Naphthalene	ND	ug/L	9.6	1.3	1	12/21/18 12:23	12/24/18 12:48	91-20-3	
2-Nitroaniline	ND	ug/L	48.1	2.2	1	12/21/18 12:23	12/24/18 12:48	88-74-4	
3-Nitroaniline	ND	ug/L	48.1	2.6	1	12/21/18 12:23	12/24/18 12:48	99-09-2	
4-Nitroaniline	ND	ug/L	48.1	3.2	1	12/21/18 12:23	12/24/18 12:48	100-01-6	
Nitrobenzene	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 12:48	98-95-3	
2-Nitrophenol	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 12:48	88-75-5	
4-Nitrophenol	ND	ug/L	48.1	4.1	1	12/21/18 12:23	12/24/18 12:48	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 12:48	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 12:48	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 12:48	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	9.6	1.8	1	12/21/18 12:23	12/24/18 12:48	108-60-1	
Pentachlorophenol	ND	ug/L	48.1	3.4	1	12/21/18 12:23	12/24/18 12:48	87-86-5	
Phenanthrene	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 12:48	85-01-8	
Phenol	ND	ug/L	9.6	1.2	1	12/21/18 12:23	12/24/18 12:48	108-95-2	
Pyrene	ND	ug/L	9.6	2.1	1	12/21/18 12:23	12/24/18 12:48	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 12:48	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 12:48	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 12:48	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	57	%	21-110		1	12/21/18 12:23	12/24/18 12:48	4165-60-0	
2-Fluorobiphenyl (S)	58	%	27-110		1	12/21/18 12:23	12/24/18 12:48	321-60-8	
Terphenyl-d14 (S)	59	%	31-107		1	12/21/18 12:23	12/24/18 12:48	1718-51-0	
Phenol-d6 (S)	18	%	10-110		1	12/21/18 12:23	12/24/18 12:48	13127-88-3	
2-Fluorophenol (S)	26	%	12-110		1	12/21/18 12:23	12/24/18 12:48	367-12-4	
2,4,6-Tribromophenol (S)	73	%	27-110		1	12/21/18 12:23	12/24/18 12:48	118-79-6	
8260 MSV Low Level SC Analytical Method: EPA 8260B									
Acetone	ND	ug/L	25.0	10.0	1		12/27/18 14:31	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/27/18 14:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/27/18 14:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/27/18 14:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/27/18 14:31	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/27/18 14:31	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/27/18 14:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/27/18 14:31	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/27/18 14:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/27/18 14:31	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/27/18 14:31	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/27/18 14:31	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/27/18 14:31	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/27/18 14:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/27/18 14:31	106-43-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-7 **Lab ID: 92411780001** Collected: 12/19/18 14:30 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/27/18 14:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/27/18 14:31	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/27/18 14:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/27/18 14:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/27/18 14:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 14:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/27/18 14:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/27/18 14:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/27/18 14:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/27/18 14:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/27/18 14:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/27/18 14:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/27/18 14:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/27/18 14:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/27/18 14:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/27/18 14:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/27/18 14:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/27/18 14:31	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/27/18 14:31	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/27/18 14:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/27/18 14:31	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/27/18 14:31	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/27/18 14:31	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/27/18 14:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/27/18 14:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/27/18 14:31	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/27/18 14:31	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/27/18 14:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/27/18 14:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/27/18 14:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/27/18 14:31	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/27/18 14:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 14:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/27/18 14:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/27/18 14:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/27/18 14:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/27/18 14:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/27/18 14:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/27/18 14:31	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/27/18 14:31	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/27/18 14:31	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/27/18 14:31	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/27/18 14:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/27/18 14:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/27/18 14:31	460-00-4	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-7		Lab ID: 92411780001		Collected: 12/19/18 14:30	Received: 12/20/18 11:15	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260B							
Surrogates									
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		12/27/18 14:31	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/27/18 14:31	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-8 **Lab ID: 92411780002** Collected: 12/19/18 14:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:21	83-32-9	
Acenaphthylene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:21	208-96-8	
Aniline	ND	ug/L	9.8	1.2	1	12/21/18 12:23	12/24/18 13:21	62-53-3	
Anthracene	ND	ug/L	9.8	1.7	1	12/21/18 12:23	12/24/18 13:21	120-12-7	
Benzo(a)anthracene	ND	ug/L	9.8	2.1	1	12/21/18 12:23	12/24/18 13:21	56-55-3	
Benzo(a)pyrene	ND	ug/L	9.8	2.2	1	12/21/18 12:23	12/24/18 13:21	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	9.8	2.1	1	12/21/18 12:23	12/24/18 13:21	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 13:21	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 13:21	207-08-9	
Benzoic Acid	ND	ug/L	49.0	4.9	1	12/21/18 12:23	12/24/18 13:21	65-85-0	
Benzyl alcohol	ND	ug/L	19.6	3.0	1	12/21/18 12:23	12/24/18 13:21	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:21	101-55-3	
Butylbenzylphthalate	ND	ug/L	9.8	2.4	1	12/21/18 12:23	12/24/18 13:21	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	19.6	2.8	1	12/21/18 12:23	12/24/18 13:21	59-50-7	
4-Chloroaniline	ND	ug/L	49.0	2.8	1	12/21/18 12:23	12/24/18 13:21	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:21	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	9.8	1.7	1	12/21/18 12:23	12/24/18 13:21	111-44-4	
2-Chloronaphthalene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:21	91-58-7	
2-Chlorophenol	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:21	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:21	7005-72-3	
Chrysene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 13:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 13:21	53-70-3	
Dibenzofuran	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:21	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:21	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	49.0	3.8	1	12/21/18 12:23	12/24/18 13:21	91-94-1	
2,4-Dichlorophenol	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:21	120-83-2	
Diethylphthalate	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:21	84-66-2	
2,4-Dimethylphenol	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:21	105-67-9	
Dimethylphthalate	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:21	131-11-3	
Di-n-butylphthalate	ND	ug/L	9.8	1.9	1	12/21/18 12:23	12/24/18 13:21	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	19.6	2.2	1	12/21/18 12:23	12/24/18 13:21	534-52-1	
2,4-Dinitrophenol	ND	ug/L	49.0	5.0	1	12/21/18 12:23	12/24/18 13:21	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:21	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:21	606-20-2	
Di-n-octylphthalate	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:21	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.9	2.3	1	12/21/18 12:23	12/24/18 13:21	117-81-7	
Fluoranthene	ND	ug/L	9.8	2.2	1	12/21/18 12:23	12/24/18 13:21	206-44-0	
Fluorene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:21	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:21	87-68-3	
Hexachlorobenzene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:21	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	9.8	1.3	1	12/21/18 12:23	12/24/18 13:21	77-47-4	
Hexachloroethane	ND	ug/L	9.8	1.8	1	12/21/18 12:23	12/24/18 13:21	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 13:21	193-39-5	
Isophorone	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:21	78-59-1	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Sample Project No.: 92411780

Sample: SW-8 **Lab ID: 92411780002** Collected: 12/19/18 14:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
1-Methylnaphthalene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:21	90-12-0	
2-Methylnaphthalene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:21	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:21	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:21	15831-10-4	
Naphthalene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:21	91-20-3	
2-Nitroaniline	ND	ug/L	49.0	2.2	1	12/21/18 12:23	12/24/18 13:21	88-74-4	
3-Nitroaniline	ND	ug/L	49.0	2.6	1	12/21/18 12:23	12/24/18 13:21	99-09-2	
4-Nitroaniline	ND	ug/L	49.0	3.3	1	12/21/18 12:23	12/24/18 13:21	100-01-6	
Nitrobenzene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:21	98-95-3	
2-Nitrophenol	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:21	88-75-5	
4-Nitrophenol	ND	ug/L	49.0	4.2	1	12/21/18 12:23	12/24/18 13:21	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:21	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	9.8	1.7	1	12/21/18 12:23	12/24/18 13:21	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:21	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	9.8	1.8	1	12/21/18 12:23	12/24/18 13:21	108-60-1	
Pentachlorophenol	ND	ug/L	49.0	3.5	1	12/21/18 12:23	12/24/18 13:21	87-86-5	
Phenanthrene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:21	85-01-8	
Phenol	ND	ug/L	9.8	1.3	1	12/21/18 12:23	12/24/18 13:21	108-95-2	
Pyrene	ND	ug/L	9.8	2.2	1	12/21/18 12:23	12/24/18 13:21	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:21	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:21	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:21	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	63	%	21-110		1	12/21/18 12:23	12/24/18 13:21	4165-60-0	
2-Fluorobiphenyl (S)	66	%	27-110		1	12/21/18 12:23	12/24/18 13:21	321-60-8	
Terphenyl-d14 (S)	75	%	31-107		1	12/21/18 12:23	12/24/18 13:21	1718-51-0	
Phenol-d6 (S)	19	%	10-110		1	12/21/18 12:23	12/24/18 13:21	13127-88-3	
2-Fluorophenol (S)	30	%	12-110		1	12/21/18 12:23	12/24/18 13:21	367-12-4	
2,4,6-Tribromophenol (S)	82	%	27-110		1	12/21/18 12:23	12/24/18 13:21	118-79-6	
8260 MSV Low Level SC Analytical Method: EPA 8260B									
Acetone	ND	ug/L	25.0	10.0	1		12/27/18 14:47	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/27/18 14:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/27/18 14:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/27/18 14:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/27/18 14:47	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/27/18 14:47	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/27/18 14:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/27/18 14:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/27/18 14:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/27/18 14:47	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/27/18 14:47	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/27/18 14:47	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/27/18 14:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/27/18 14:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/27/18 14:47	106-43-4	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-8 **Lab ID: 92411780002** Collected: 12/19/18 14:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/27/18 14:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/27/18 14:47	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/27/18 14:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/27/18 14:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/27/18 14:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 14:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/27/18 14:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/27/18 14:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/27/18 14:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/27/18 14:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/27/18 14:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/27/18 14:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/27/18 14:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/27/18 14:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/27/18 14:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/27/18 14:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/27/18 14:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/27/18 14:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/27/18 14:47	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/27/18 14:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/27/18 14:47	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/27/18 14:47	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/27/18 14:47	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/27/18 14:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/27/18 14:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/27/18 14:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/27/18 14:47	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/27/18 14:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/27/18 14:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/27/18 14:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/27/18 14:47	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/27/18 14:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 14:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/27/18 14:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/27/18 14:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/27/18 14:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/27/18 14:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/27/18 14:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/27/18 14:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/27/18 14:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/27/18 14:47	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/27/18 14:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/27/18 14:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/27/18 14:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/27/18 14:47	460-00-4	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: SW-8									
Lab ID: 92411780002									
Collected: 12/19/18 14:00 Received: 12/20/18 11:15 Matrix: Water									
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		12/27/18 14:47	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/27/18 14:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-9 **Lab ID: 92411780003** Collected: 12/19/18 13:25 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:54	83-32-9	
Acenaphthylene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:54	208-96-8	
Aniline	ND	ug/L	9.8	1.2	1	12/21/18 12:23	12/24/18 13:54	62-53-3	
Anthracene	ND	ug/L	9.8	1.7	1	12/21/18 12:23	12/24/18 13:54	120-12-7	
Benzo(a)anthracene	ND	ug/L	9.8	2.1	1	12/21/18 12:23	12/24/18 13:54	56-55-3	
Benzo(a)pyrene	ND	ug/L	9.8	2.2	1	12/21/18 12:23	12/24/18 13:54	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	9.8	2.1	1	12/21/18 12:23	12/24/18 13:54	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 13:54	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 13:54	207-08-9	
Benzoic Acid	ND	ug/L	49.0	4.9	1	12/21/18 12:23	12/24/18 13:54	65-85-0	
Benzyl alcohol	ND	ug/L	19.6	3.0	1	12/21/18 12:23	12/24/18 13:54	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:54	101-55-3	
Butylbenzylphthalate	ND	ug/L	9.8	2.4	1	12/21/18 12:23	12/24/18 13:54	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	19.6	2.8	1	12/21/18 12:23	12/24/18 13:54	59-50-7	
4-Chloroaniline	ND	ug/L	49.0	2.8	1	12/21/18 12:23	12/24/18 13:54	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:54	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	9.8	1.7	1	12/21/18 12:23	12/24/18 13:54	111-44-4	
2-Chloronaphthalene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:54	91-58-7	
2-Chlorophenol	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:54	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:54	7005-72-3	
Chrysene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 13:54	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 13:54	53-70-3	
Dibenzofuran	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:54	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:54	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	49.0	3.8	1	12/21/18 12:23	12/24/18 13:54	91-94-1	
2,4-Dichlorophenol	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:54	120-83-2	
Diethylphthalate	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:54	84-66-2	
2,4-Dimethylphenol	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:54	105-67-9	
Dimethylphthalate	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:54	131-11-3	
Di-n-butylphthalate	ND	ug/L	9.8	1.9	1	12/21/18 12:23	12/24/18 13:54	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	19.6	2.2	1	12/21/18 12:23	12/24/18 13:54	534-52-1	
2,4-Dinitrophenol	ND	ug/L	49.0	5.0	1	12/21/18 12:23	12/24/18 13:54	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:54	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:54	606-20-2	
Di-n-octylphthalate	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:54	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.9	2.3	1	12/21/18 12:23	12/24/18 13:54	117-81-7	
Fluoranthene	ND	ug/L	9.8	2.2	1	12/21/18 12:23	12/24/18 13:54	206-44-0	
Fluorene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:54	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:54	87-68-3	
Hexachlorobenzene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:54	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	9.8	1.3	1	12/21/18 12:23	12/24/18 13:54	77-47-4	
Hexachloroethane	ND	ug/L	9.8	1.8	1	12/21/18 12:23	12/24/18 13:54	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 13:54	193-39-5	
Isophorone	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:54	78-59-1	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Sample Project No.: 92411780

Sample: SW-9 **Lab ID: 92411780003** Collected: 12/19/18 13:25 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC			Analytical Method: EPA 8270D Preparation Method: EPA 3510C						
1-Methylnaphthalene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:54	90-12-0	
2-Methylnaphthalene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:54	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:54	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:54	15831-10-4	
Naphthalene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:54	91-20-3	
2-Nitroaniline	ND	ug/L	49.0	2.2	1	12/21/18 12:23	12/24/18 13:54	88-74-4	
3-Nitroaniline	ND	ug/L	49.0	2.6	1	12/21/18 12:23	12/24/18 13:54	99-09-2	
4-Nitroaniline	ND	ug/L	49.0	3.3	1	12/21/18 12:23	12/24/18 13:54	100-01-6	
Nitrobenzene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:54	98-95-3	
2-Nitrophenol	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:54	88-75-5	
4-Nitrophenol	ND	ug/L	49.0	4.2	1	12/21/18 12:23	12/24/18 13:54	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:54	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	9.8	1.7	1	12/21/18 12:23	12/24/18 13:54	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:54	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	9.8	1.8	1	12/21/18 12:23	12/24/18 13:54	108-60-1	
Pentachlorophenol	ND	ug/L	49.0	3.5	1	12/21/18 12:23	12/24/18 13:54	87-86-5	
Phenanthrene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 13:54	85-01-8	
Phenol	ND	ug/L	9.8	1.3	1	12/21/18 12:23	12/24/18 13:54	108-95-2	
Pyrene	ND	ug/L	9.8	2.2	1	12/21/18 12:23	12/24/18 13:54	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:54	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 13:54	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 13:54	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	40	%	21-110		1	12/21/18 12:23	12/24/18 13:54	4165-60-0	
2-Fluorobiphenyl (S)	40	%	27-110		1	12/21/18 12:23	12/24/18 13:54	321-60-8	
Terphenyl-d14 (S)	42	%	31-107		1	12/21/18 12:23	12/24/18 13:54	1718-51-0	
Phenol-d6 (S)	11	%	10-110		1	12/21/18 12:23	12/24/18 13:54	13127-88-3	
2-Fluorophenol (S)	17	%	12-110		1	12/21/18 12:23	12/24/18 13:54	367-12-4	
2,4,6-Tribromophenol (S)	41	%	27-110		1	12/21/18 12:23	12/24/18 13:54	118-79-6	
8260 MSV Low Level SC			Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	10.0	1		12/27/18 15:03	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/27/18 15:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/27/18 15:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/27/18 15:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/27/18 15:03	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/27/18 15:03	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/27/18 15:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/27/18 15:03	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/27/18 15:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/27/18 15:03	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/27/18 15:03	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/27/18 15:03	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/27/18 15:03	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/27/18 15:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/27/18 15:03	106-43-4	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-9 **Lab ID: 92411780003** Collected: 12/19/18 13:25 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/27/18 15:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/27/18 15:03	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/27/18 15:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/27/18 15:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/27/18 15:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 15:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/27/18 15:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/27/18 15:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/27/18 15:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/27/18 15:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/27/18 15:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/27/18 15:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/27/18 15:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/27/18 15:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/27/18 15:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/27/18 15:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/27/18 15:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/27/18 15:03	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/27/18 15:03	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/27/18 15:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/27/18 15:03	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/27/18 15:03	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/27/18 15:03	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/27/18 15:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/27/18 15:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/27/18 15:03	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/27/18 15:03	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/27/18 15:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/27/18 15:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/27/18 15:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/27/18 15:03	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/27/18 15:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 15:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/27/18 15:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/27/18 15:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/27/18 15:03	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/27/18 15:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/27/18 15:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/27/18 15:03	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/27/18 15:03	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/27/18 15:03	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/27/18 15:03	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/27/18 15:03	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/27/18 15:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/27/18 15:03	460-00-4	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-9		Lab ID: 92411780003		Collected: 12/19/18 13:25	Received: 12/20/18 11:15	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260B							
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		12/27/18 15:03	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/27/18 15:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-10 **Lab ID: 92411780004** Collected: 12/19/18 12:50 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:26	83-32-9	
Acenaphthylene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:26	208-96-8	
Aniline	ND	ug/L	9.8	1.2	1	12/21/18 12:23	12/24/18 14:26	62-53-3	
Anthracene	ND	ug/L	9.8	1.7	1	12/21/18 12:23	12/24/18 14:26	120-12-7	
Benzo(a)anthracene	ND	ug/L	9.8	2.1	1	12/21/18 12:23	12/24/18 14:26	56-55-3	
Benzo(a)pyrene	ND	ug/L	9.8	2.2	1	12/21/18 12:23	12/24/18 14:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	9.8	2.1	1	12/21/18 12:23	12/24/18 14:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 14:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 14:26	207-08-9	
Benzoic Acid	ND	ug/L	49.0	4.9	1	12/21/18 12:23	12/24/18 14:26	65-85-0	
Benzyl alcohol	ND	ug/L	19.6	3.0	1	12/21/18 12:23	12/24/18 14:26	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:26	101-55-3	
Butylbenzylphthalate	ND	ug/L	9.8	2.4	1	12/21/18 12:23	12/24/18 14:26	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	19.6	2.8	1	12/21/18 12:23	12/24/18 14:26	59-50-7	
4-Chloroaniline	ND	ug/L	49.0	2.8	1	12/21/18 12:23	12/24/18 14:26	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:26	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	9.8	1.7	1	12/21/18 12:23	12/24/18 14:26	111-44-4	
2-Chloronaphthalene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:26	91-58-7	
2-Chlorophenol	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:26	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:26	7005-72-3	
Chrysene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 14:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 14:26	53-70-3	
Dibenzofuran	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:26	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:26	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	49.0	3.8	1	12/21/18 12:23	12/24/18 14:26	91-94-1	
2,4-Dichlorophenol	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:26	120-83-2	
Diethylphthalate	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:26	84-66-2	
2,4-Dimethylphenol	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:26	105-67-9	
Dimethylphthalate	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:26	131-11-3	
Di-n-butylphthalate	ND	ug/L	9.8	1.9	1	12/21/18 12:23	12/24/18 14:26	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	19.6	2.2	1	12/21/18 12:23	12/24/18 14:26	534-52-1	
2,4-Dinitrophenol	ND	ug/L	49.0	5.0	1	12/21/18 12:23	12/24/18 14:26	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:26	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:26	606-20-2	
Di-n-octylphthalate	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:26	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.9	2.3	1	12/21/18 12:23	12/24/18 14:26	117-81-7	
Fluoranthene	ND	ug/L	9.8	2.2	1	12/21/18 12:23	12/24/18 14:26	206-44-0	
Fluorene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:26	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:26	87-68-3	
Hexachlorobenzene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:26	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	9.8	1.3	1	12/21/18 12:23	12/24/18 14:26	77-47-4	
Hexachloroethane	ND	ug/L	9.8	1.8	1	12/21/18 12:23	12/24/18 14:26	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 14:26	193-39-5	
Isophorone	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:26	78-59-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Sample Project No.: 92411780

Sample: SW-10 **Lab ID: 92411780004** Collected: 12/19/18 12:50 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
1-Methylnaphthalene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:26	90-12-0	
2-Methylnaphthalene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:26	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:26	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:26	15831-10-4	
Naphthalene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:26	91-20-3	
2-Nitroaniline	ND	ug/L	49.0	2.2	1	12/21/18 12:23	12/24/18 14:26	88-74-4	
3-Nitroaniline	ND	ug/L	49.0	2.6	1	12/21/18 12:23	12/24/18 14:26	99-09-2	
4-Nitroaniline	ND	ug/L	49.0	3.3	1	12/21/18 12:23	12/24/18 14:26	100-01-6	
Nitrobenzene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:26	98-95-3	
2-Nitrophenol	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:26	88-75-5	
4-Nitrophenol	ND	ug/L	49.0	4.2	1	12/21/18 12:23	12/24/18 14:26	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:26	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	9.8	1.7	1	12/21/18 12:23	12/24/18 14:26	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:26	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	9.8	1.8	1	12/21/18 12:23	12/24/18 14:26	108-60-1	
Pentachlorophenol	ND	ug/L	49.0	3.5	1	12/21/18 12:23	12/24/18 14:26	87-86-5	
Phenanthrene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:26	85-01-8	
Phenol	ND	ug/L	9.8	1.3	1	12/21/18 12:23	12/24/18 14:26	108-95-2	
Pyrene	ND	ug/L	9.8	2.2	1	12/21/18 12:23	12/24/18 14:26	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:26	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:26	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:26	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	60	%	21-110		1	12/21/18 12:23	12/24/18 14:26	4165-60-0	
2-Fluorobiphenyl (S)	61	%	27-110		1	12/21/18 12:23	12/24/18 14:26	321-60-8	
Terphenyl-d14 (S)	36	%	31-107		1	12/21/18 12:23	12/24/18 14:26	1718-51-0	
Phenol-d6 (S)	19	%	10-110		1	12/21/18 12:23	12/24/18 14:26	13127-88-3	
2-Fluorophenol (S)	27	%	12-110		1	12/21/18 12:23	12/24/18 14:26	367-12-4	
2,4,6-Tribromophenol (S)	54	%	27-110		1	12/21/18 12:23	12/24/18 14:26	118-79-6	
8260 MSV Low Level SC Analytical Method: EPA 8260B									
Acetone	ND	ug/L	25.0	10.0	1		12/27/18 15:19	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/27/18 15:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/27/18 15:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/27/18 15:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/27/18 15:19	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/27/18 15:19	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/27/18 15:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/27/18 15:19	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/27/18 15:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/27/18 15:19	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/27/18 15:19	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/27/18 15:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/27/18 15:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/27/18 15:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/27/18 15:19	106-43-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-10 **Lab ID: 92411780004** Collected: 12/19/18 12:50 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/27/18 15:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/27/18 15:19	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/27/18 15:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/27/18 15:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/27/18 15:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 15:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/27/18 15:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/27/18 15:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/27/18 15:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/27/18 15:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/27/18 15:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/27/18 15:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/27/18 15:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/27/18 15:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/27/18 15:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/27/18 15:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/27/18 15:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/27/18 15:19	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/27/18 15:19	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/27/18 15:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/27/18 15:19	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/27/18 15:19	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/27/18 15:19	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/27/18 15:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/27/18 15:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/27/18 15:19	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/27/18 15:19	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/27/18 15:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/27/18 15:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/27/18 15:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/27/18 15:19	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/27/18 15:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 15:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/27/18 15:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/27/18 15:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/27/18 15:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/27/18 15:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/27/18 15:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/27/18 15:19	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/27/18 15:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/27/18 15:19	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/27/18 15:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/27/18 15:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/27/18 15:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/27/18 15:19	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: SW-10									
Lab ID: 92411780004									
Collected: 12/19/18 12:50									
Received: 12/20/18 11:15									
Matrix: Water									
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		12/27/18 15:19	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/27/18 15:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-11 **Lab ID: 92411780005** Collected: 12/19/18 11:45 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:59	83-32-9	
Acenaphthylene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:59	208-96-8	
Aniline	ND	ug/L	9.8	1.2	1	12/21/18 12:23	12/24/18 14:59	62-53-3	
Anthracene	ND	ug/L	9.8	1.7	1	12/21/18 12:23	12/24/18 14:59	120-12-7	
Benzo(a)anthracene	ND	ug/L	9.8	2.1	1	12/21/18 12:23	12/24/18 14:59	56-55-3	
Benzo(a)pyrene	ND	ug/L	9.8	2.2	1	12/21/18 12:23	12/24/18 14:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	9.8	2.1	1	12/21/18 12:23	12/24/18 14:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 14:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 14:59	207-08-9	
Benzoic Acid	ND	ug/L	49.0	4.9	1	12/21/18 12:23	12/24/18 14:59	65-85-0	
Benzyl alcohol	ND	ug/L	19.6	3.0	1	12/21/18 12:23	12/24/18 14:59	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:59	101-55-3	
Butylbenzylphthalate	ND	ug/L	9.8	2.4	1	12/21/18 12:23	12/24/18 14:59	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	19.6	2.8	1	12/21/18 12:23	12/24/18 14:59	59-50-7	
4-Chloroaniline	ND	ug/L	49.0	2.8	1	12/21/18 12:23	12/24/18 14:59	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:59	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	9.8	1.7	1	12/21/18 12:23	12/24/18 14:59	111-44-4	
2-Chloronaphthalene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:59	91-58-7	
2-Chlorophenol	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:59	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:59	7005-72-3	
Chrysene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 14:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 14:59	53-70-3	
Dibenzofuran	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:59	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:59	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	49.0	3.8	1	12/21/18 12:23	12/24/18 14:59	91-94-1	
2,4-Dichlorophenol	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:59	120-83-2	
Diethylphthalate	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:59	84-66-2	
2,4-Dimethylphenol	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:59	105-67-9	
Dimethylphthalate	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:59	131-11-3	
Di-n-butylphthalate	ND	ug/L	9.8	1.9	1	12/21/18 12:23	12/24/18 14:59	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	19.6	2.2	1	12/21/18 12:23	12/24/18 14:59	534-52-1	
2,4-Dinitrophenol	ND	ug/L	49.0	5.0	1	12/21/18 12:23	12/24/18 14:59	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:59	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:59	606-20-2	
Di-n-octylphthalate	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:59	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.9	2.3	1	12/21/18 12:23	12/24/18 14:59	117-81-7	
Fluoranthene	ND	ug/L	9.8	2.2	1	12/21/18 12:23	12/24/18 14:59	206-44-0	
Fluorene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:59	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:59	87-68-3	
Hexachlorobenzene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:59	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	9.8	1.3	1	12/21/18 12:23	12/24/18 14:59	77-47-4	
Hexachloroethane	ND	ug/L	9.8	1.8	1	12/21/18 12:23	12/24/18 14:59	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	9.8	2.0	1	12/21/18 12:23	12/24/18 14:59	193-39-5	
Isophorone	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:59	78-59-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Sample Project No.: 92411780

Sample: SW-11 **Lab ID: 92411780005** Collected: 12/19/18 11:45 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC			Analytical Method: EPA 8270D Preparation Method: EPA 3510C						
1-Methylnaphthalene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:59	90-12-0	
2-Methylnaphthalene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:59	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:59	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:59	15831-10-4	
Naphthalene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:59	91-20-3	
2-Nitroaniline	ND	ug/L	49.0	2.2	1	12/21/18 12:23	12/24/18 14:59	88-74-4	
3-Nitroaniline	ND	ug/L	49.0	2.6	1	12/21/18 12:23	12/24/18 14:59	99-09-2	
4-Nitroaniline	ND	ug/L	49.0	3.3	1	12/21/18 12:23	12/24/18 14:59	100-01-6	
Nitrobenzene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:59	98-95-3	
2-Nitrophenol	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:59	88-75-5	
4-Nitrophenol	ND	ug/L	49.0	4.2	1	12/21/18 12:23	12/24/18 14:59	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:59	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	9.8	1.7	1	12/21/18 12:23	12/24/18 14:59	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:59	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	9.8	1.8	1	12/21/18 12:23	12/24/18 14:59	108-60-1	
Pentachlorophenol	ND	ug/L	49.0	3.5	1	12/21/18 12:23	12/24/18 14:59	87-86-5	
Phenanthrene	ND	ug/L	9.8	1.6	1	12/21/18 12:23	12/24/18 14:59	85-01-8	
Phenol	ND	ug/L	9.8	1.3	1	12/21/18 12:23	12/24/18 14:59	108-95-2	
Pyrene	ND	ug/L	9.8	2.2	1	12/21/18 12:23	12/24/18 14:59	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:59	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	9.8	1.5	1	12/21/18 12:23	12/24/18 14:59	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	9.8	1.4	1	12/21/18 12:23	12/24/18 14:59	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	66	%	21-110		1	12/21/18 12:23	12/24/18 14:59	4165-60-0	
2-Fluorobiphenyl (S)	68	%	27-110		1	12/21/18 12:23	12/24/18 14:59	321-60-8	
Terphenyl-d14 (S)	47	%	31-107		1	12/21/18 12:23	12/24/18 14:59	1718-51-0	
Phenol-d6 (S)	22	%	10-110		1	12/21/18 12:23	12/24/18 14:59	13127-88-3	
2-Fluorophenol (S)	30	%	12-110		1	12/21/18 12:23	12/24/18 14:59	367-12-4	
2,4,6-Tribromophenol (S)	61	%	27-110		1	12/21/18 12:23	12/24/18 14:59	118-79-6	
8260 MSV Low Level SC			Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	10.0	1		12/27/18 15:35	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/27/18 15:35	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/27/18 15:35	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/27/18 15:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/27/18 15:35	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/27/18 15:35	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/27/18 15:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/27/18 15:35	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/27/18 15:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/27/18 15:35	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/27/18 15:35	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/27/18 15:35	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/27/18 15:35	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/27/18 15:35	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/27/18 15:35	106-43-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Sample Project No.: 92411780

Sample: SW-11 Lab ID: 92411780005 Collected: 12/19/18 11:45 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/27/18 15:35	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/27/18 15:35	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/27/18 15:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/27/18 15:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/27/18 15:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 15:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/27/18 15:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/27/18 15:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/27/18 15:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/27/18 15:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/27/18 15:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/27/18 15:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/27/18 15:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/27/18 15:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/27/18 15:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/27/18 15:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/27/18 15:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/27/18 15:35	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/27/18 15:35	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/27/18 15:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/27/18 15:35	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/27/18 15:35	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/27/18 15:35	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/27/18 15:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/27/18 15:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/27/18 15:35	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/27/18 15:35	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/27/18 15:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/27/18 15:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/27/18 15:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/27/18 15:35	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/27/18 15:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 15:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/27/18 15:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/27/18 15:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/27/18 15:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/27/18 15:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/27/18 15:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/27/18 15:35	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/27/18 15:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/27/18 15:35	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/27/18 15:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/27/18 15:35	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/27/18 15:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/27/18 15:35	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-11		Lab ID: 92411780005		Collected: 12/19/18 11:45	Received: 12/20/18 11:15	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260B							
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		12/27/18 15:35	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/27/18 15:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-12 MS/MSD **Lab ID: 92411780006** Collected: 12/19/18 10:30 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.5	1	12/21/18 12:23	12/26/18 09:51	208-96-8	
Aniline	ND	ug/L	10.0	1.2	1	12/21/18 12:23	12/26/18 09:51	62-53-3	
Anthracene	ND	ug/L	10.0	1.7	1	12/21/18 12:23	12/26/18 09:51	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	2.1	1	12/21/18 12:23	12/26/18 09:51	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	2.2	1	12/21/18 12:23	12/26/18 09:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	2.2	1	12/21/18 12:23	12/26/18 09:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	2.1	1	12/21/18 12:23	12/26/18 09:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	2.0	1	12/21/18 12:23	12/26/18 09:51	207-08-9	
Benzoic Acid	ND	ug/L	50.0	5.0	1	12/21/18 12:23	12/26/18 09:51	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.1	1	12/21/18 12:23	12/26/18 09:51	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.5	1	12/21/18 12:23	12/26/18 09:51	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	2.5	1	12/21/18 12:23	12/26/18 09:51	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.8	1	12/21/18 12:23	12/26/18 09:51	59-50-7	
4-Chloroaniline	ND	ug/L	50.0	2.8	1	12/21/18 12:23	12/26/18 09:51	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	12/21/18 12:23	12/26/18 09:51	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/21/18 12:23	12/26/18 09:51	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	7005-72-3	
Chrysene	ND	ug/L	10.0	2.1	1	12/21/18 12:23	12/26/18 09:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	2.0	1	12/21/18 12:23	12/26/18 09:51	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.7	1	12/21/18 12:23	12/26/18 09:51	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.5	1	12/21/18 12:23	12/26/18 09:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/21/18 12:23	12/26/18 09:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.4	1	12/21/18 12:23	12/26/18 09:51	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	50.0	3.9	1	12/21/18 12:23	12/26/18 09:51	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	12/21/18 12:23	12/26/18 09:51	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	2.0	1	12/21/18 12:23	12/26/18 09:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.2	1	12/21/18 12:23	12/26/18 09:51	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	5.1	1	12/21/18 12:23	12/26/18 09:51	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.5	1	12/21/18 12:23	12/26/18 09:51	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.4	1	12/21/18 12:23	12/26/18 09:51	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.5	1	12/21/18 12:23	12/26/18 09:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.3	1	12/21/18 12:23	12/26/18 09:51	117-81-7	
Fluoranthene	ND	ug/L	10.0	2.2	1	12/21/18 12:23	12/26/18 09:51	206-44-0	
Fluorene	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.7	1	12/21/18 12:23	12/26/18 09:51	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.3	1	12/21/18 12:23	12/26/18 09:51	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.8	1	12/21/18 12:23	12/26/18 09:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	2.0	1	12/21/18 12:23	12/26/18 09:51	193-39-5	
Isophorone	ND	ug/L	10.0	1.5	1	12/21/18 12:23	12/26/18 09:51	78-59-1	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Sample Project No.: 92411780

Sample: **SW-12 MS/MSD** Lab ID: **92411780006** Collected: 12/19/18 10:30 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
1-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/21/18 12:23	12/26/18 09:51	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.4	1	12/21/18 12:23	12/26/18 09:51	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.4	1	12/21/18 12:23	12/26/18 09:51	15831-10-4	
Naphthalene	ND	ug/L	10.0	1.4	1	12/21/18 12:23	12/26/18 09:51	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.3	1	12/21/18 12:23	12/26/18 09:51	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.7	1	12/21/18 12:23	12/26/18 09:51	99-09-2	
4-Nitroaniline	ND	ug/L	50.0	3.4	1	12/21/18 12:23	12/26/18 09:51	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.3	1	12/21/18 12:23	12/26/18 09:51	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.7	1	12/21/18 12:23	12/26/18 09:51	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	12/21/18 12:23	12/26/18 09:51	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.8	1	12/21/18 12:23	12/26/18 09:51	108-60-1	
Pentachlorophenol	ND	ug/L	50.0	3.5	1	12/21/18 12:23	12/26/18 09:51	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.6	1	12/21/18 12:23	12/26/18 09:51	85-01-8	
Phenol	ND	ug/L	10.0	1.3	1	12/21/18 12:23	12/26/18 09:51	108-95-2	
Pyrene	ND	ug/L	10.0	2.2	1	12/21/18 12:23	12/26/18 09:51	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.4	1	12/21/18 12:23	12/26/18 09:51	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	12/21/18 12:23	12/26/18 09:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	12/21/18 12:23	12/26/18 09:51	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	59	%	21-110		1	12/21/18 12:23	12/26/18 09:51	4165-60-0	
2-Fluorobiphenyl (S)	62	%	27-110		1	12/21/18 12:23	12/26/18 09:51	321-60-8	
Terphenyl-d14 (S)	37	%	31-107		1	12/21/18 12:23	12/26/18 09:51	1718-51-0	
Phenol-d6 (S)	19	%	10-110		1	12/21/18 12:23	12/26/18 09:51	13127-88-3	
2-Fluorophenol (S)	27	%	12-110		1	12/21/18 12:23	12/26/18 09:51	367-12-4	
2,4,6-Tribromophenol (S)	56	%	27-110		1	12/21/18 12:23	12/26/18 09:51	118-79-6	
8260 MSV Low Level SC Analytical Method: EPA 8260B									
Acetone	ND	ug/L	25.0	10.0	1		12/27/18 15:52	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/27/18 15:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/27/18 15:52	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/27/18 15:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/27/18 15:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/27/18 15:52	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/27/18 15:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/27/18 15:52	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/27/18 15:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/27/18 15:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/27/18 15:52	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/27/18 15:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/27/18 15:52	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/27/18 15:52	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/27/18 15:52	106-43-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-12 MS/MSD **Lab ID: 92411780006** Collected: 12/19/18 10:30 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/27/18 15:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/27/18 15:52	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/27/18 15:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/27/18 15:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/27/18 15:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 15:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/27/18 15:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/27/18 15:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/27/18 15:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/27/18 15:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/27/18 15:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/27/18 15:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/27/18 15:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/27/18 15:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/27/18 15:52	594-20-7	M1
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/27/18 15:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/27/18 15:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/27/18 15:52	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/27/18 15:52	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/27/18 15:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/27/18 15:52	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/27/18 15:52	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/27/18 15:52	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/27/18 15:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/27/18 15:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/27/18 15:52	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/27/18 15:52	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/27/18 15:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/27/18 15:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/27/18 15:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/27/18 15:52	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/27/18 15:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 15:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/27/18 15:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/27/18 15:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/27/18 15:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/27/18 15:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/27/18 15:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/27/18 15:52	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/27/18 15:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/27/18 15:52	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/27/18 15:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/27/18 15:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/27/18 15:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/27/18 15:52	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-12 MS/MSD		Lab ID: 92411780006		Collected: 12/19/18 10:30	Received: 12/20/18 11:15	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260B							
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		12/27/18 15:52	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/27/18 15:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-DUP1 **Lab ID: 92411780007** Collected: 12/19/18 09:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 17:10	83-32-9	
Acenaphthylene	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 17:10	208-96-8	
Aniline	ND	ug/L	9.6	1.2	1	12/21/18 12:23	12/24/18 17:10	62-53-3	
Anthracene	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 17:10	120-12-7	
Benzo(a)anthracene	ND	ug/L	9.6	2.0	1	12/21/18 12:23	12/24/18 17:10	56-55-3	
Benzo(a)pyrene	ND	ug/L	9.6	2.1	1	12/21/18 12:23	12/24/18 17:10	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	9.6	2.1	1	12/21/18 12:23	12/24/18 17:10	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	9.6	2.0	1	12/21/18 12:23	12/24/18 17:10	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	9.6	1.9	1	12/21/18 12:23	12/24/18 17:10	207-08-9	
Benzoic Acid	ND	ug/L	48.1	4.8	1	12/21/18 12:23	12/24/18 17:10	65-85-0	
Benzyl alcohol	ND	ug/L	19.2	3.0	1	12/21/18 12:23	12/24/18 17:10	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 17:10	101-55-3	
Butylbenzylphthalate	ND	ug/L	9.6	2.4	1	12/21/18 12:23	12/24/18 17:10	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	19.2	2.7	1	12/21/18 12:23	12/24/18 17:10	59-50-7	
4-Chloroaniline	ND	ug/L	48.1	2.7	1	12/21/18 12:23	12/24/18 17:10	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 17:10	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 17:10	111-44-4	
2-Chloronaphthalene	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 17:10	91-58-7	
2-Chlorophenol	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 17:10	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 17:10	7005-72-3	
Chrysene	ND	ug/L	9.6	2.0	1	12/21/18 12:23	12/24/18 17:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	9.6	2.0	1	12/21/18 12:23	12/24/18 17:10	53-70-3	
Dibenzofuran	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 17:10	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 17:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	9.6	1.3	1	12/21/18 12:23	12/24/18 17:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	9.6	1.3	1	12/21/18 12:23	12/24/18 17:10	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	48.1	3.7	1	12/21/18 12:23	12/24/18 17:10	91-94-1	
2,4-Dichlorophenol	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 17:10	120-83-2	
Diethylphthalate	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 17:10	84-66-2	
2,4-Dimethylphenol	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 17:10	105-67-9	
Dimethylphthalate	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 17:10	131-11-3	
Di-n-butylphthalate	ND	ug/L	9.6	1.9	1	12/21/18 12:23	12/24/18 17:10	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	19.2	2.2	1	12/21/18 12:23	12/24/18 17:10	534-52-1	
2,4-Dinitrophenol	ND	ug/L	48.1	4.9	1	12/21/18 12:23	12/24/18 17:10	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 17:10	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	9.6	1.3	1	12/21/18 12:23	12/24/18 17:10	606-20-2	
Di-n-octylphthalate	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 17:10	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.8	2.2	1	12/21/18 12:23	12/24/18 17:10	117-81-7	
Fluoranthene	ND	ug/L	9.6	2.1	1	12/21/18 12:23	12/24/18 17:10	206-44-0	
Fluorene	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 17:10	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 17:10	87-68-3	
Hexachlorobenzene	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 17:10	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	9.6	1.3	1	12/21/18 12:23	12/24/18 17:10	77-47-4	
Hexachloroethane	ND	ug/L	9.6	1.8	1	12/21/18 12:23	12/24/18 17:10	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	9.6	2.0	1	12/21/18 12:23	12/24/18 17:10	193-39-5	
Isophorone	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 17:10	78-59-1	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Sample Project No.: 92411780

Sample: SW-DUP1 **Lab ID: 92411780007** Collected: 12/19/18 09:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
1-Methylnaphthalene	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 17:10	90-12-0	
2-Methylnaphthalene	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 17:10	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 17:10	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 17:10	15831-10-4	
Naphthalene	ND	ug/L	9.6	1.3	1	12/21/18 12:23	12/24/18 17:10	91-20-3	
2-Nitroaniline	ND	ug/L	48.1	2.2	1	12/21/18 12:23	12/24/18 17:10	88-74-4	
3-Nitroaniline	ND	ug/L	48.1	2.6	1	12/21/18 12:23	12/24/18 17:10	99-09-2	
4-Nitroaniline	ND	ug/L	48.1	3.2	1	12/21/18 12:23	12/24/18 17:10	100-01-6	
Nitrobenzene	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 17:10	98-95-3	
2-Nitrophenol	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 17:10	88-75-5	
4-Nitrophenol	ND	ug/L	48.1	4.1	1	12/21/18 12:23	12/24/18 17:10	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 17:10	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	9.6	1.6	1	12/21/18 12:23	12/24/18 17:10	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 17:10	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	9.6	1.8	1	12/21/18 12:23	12/24/18 17:10	108-60-1	
Pentachlorophenol	ND	ug/L	48.1	3.4	1	12/21/18 12:23	12/24/18 17:10	87-86-5	
Phenanthrene	ND	ug/L	9.6	1.5	1	12/21/18 12:23	12/24/18 17:10	85-01-8	
Phenol	ND	ug/L	9.6	1.2	1	12/21/18 12:23	12/24/18 17:10	108-95-2	
Pyrene	ND	ug/L	9.6	2.1	1	12/21/18 12:23	12/24/18 17:10	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 17:10	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 17:10	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	9.6	1.4	1	12/21/18 12:23	12/24/18 17:10	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	52	%	21-110		1	12/21/18 12:23	12/24/18 17:10	4165-60-0	
2-Fluorobiphenyl (S)	54	%	27-110		1	12/21/18 12:23	12/24/18 17:10	321-60-8	
Terphenyl-d14 (S)	54	%	31-107		1	12/21/18 12:23	12/24/18 17:10	1718-51-0	
Phenol-d6 (S)	16	%	10-110		1	12/21/18 12:23	12/24/18 17:10	13127-88-3	
2-Fluorophenol (S)	25	%	12-110		1	12/21/18 12:23	12/24/18 17:10	367-12-4	
2,4,6-Tribromophenol (S)	68	%	27-110		1	12/21/18 12:23	12/24/18 17:10	118-79-6	
8260 MSV Low Level SC Analytical Method: EPA 8260B									
Acetone	ND	ug/L	25.0	10.0	1		12/27/18 16:08	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/27/18 16:08	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/27/18 16:08	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/27/18 16:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/27/18 16:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/27/18 16:08	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/27/18 16:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/27/18 16:08	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/27/18 16:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/27/18 16:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/27/18 16:08	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/27/18 16:08	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/27/18 16:08	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/27/18 16:08	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/27/18 16:08	106-43-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-DUP1 **Lab ID: 92411780007** Collected: 12/19/18 09:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/27/18 16:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/27/18 16:08	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/27/18 16:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/27/18 16:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/27/18 16:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 16:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/27/18 16:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/27/18 16:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/27/18 16:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/27/18 16:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/27/18 16:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/27/18 16:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/27/18 16:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/27/18 16:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/27/18 16:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/27/18 16:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/27/18 16:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/27/18 16:08	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/27/18 16:08	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/27/18 16:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/27/18 16:08	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/27/18 16:08	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/27/18 16:08	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/27/18 16:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/27/18 16:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/27/18 16:08	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/27/18 16:08	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/27/18 16:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/27/18 16:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/27/18 16:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/27/18 16:08	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/27/18 16:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 16:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/27/18 16:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/27/18 16:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/27/18 16:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/27/18 16:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/27/18 16:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/27/18 16:08	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/27/18 16:08	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/27/18 16:08	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/27/18 16:08	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/27/18 16:08	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/27/18 16:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/27/18 16:08	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: SW-DUP1		Lab ID: 92411780007		Collected: 12/19/18 09:00	Received: 12/20/18 11:15	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260B							
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		12/27/18 16:08	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/27/18 16:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: FB-01 **Lab ID: 92411780008** Collected: 12/19/18 15:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	9.4	1.5	1	12/21/18 12:23	12/24/18 17:44	83-32-9	
Acenaphthylene	ND	ug/L	9.4	1.4	1	12/21/18 12:23	12/24/18 17:44	208-96-8	
Aniline	ND	ug/L	9.4	1.2	1	12/21/18 12:23	12/24/18 17:44	62-53-3	
Anthracene	ND	ug/L	9.4	1.6	1	12/21/18 12:23	12/24/18 17:44	120-12-7	
Benzo(a)anthracene	ND	ug/L	9.4	2.0	1	12/21/18 12:23	12/24/18 17:44	56-55-3	
Benzo(a)pyrene	ND	ug/L	9.4	2.1	1	12/21/18 12:23	12/24/18 17:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	9.4	2.1	1	12/21/18 12:23	12/24/18 17:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	9.4	2.0	1	12/21/18 12:23	12/24/18 17:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	9.4	1.9	1	12/21/18 12:23	12/24/18 17:44	207-08-9	
Benzoic Acid	ND	ug/L	47.2	4.7	1	12/21/18 12:23	12/24/18 17:44	65-85-0	
Benzyl alcohol	ND	ug/L	18.9	2.9	1	12/21/18 12:23	12/24/18 17:44	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	9.4	1.4	1	12/21/18 12:23	12/24/18 17:44	101-55-3	
Butylbenzylphthalate	ND	ug/L	9.4	2.3	1	12/21/18 12:23	12/24/18 17:44	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	18.9	2.7	1	12/21/18 12:23	12/24/18 17:44	59-50-7	
4-Chloroaniline	ND	ug/L	47.2	2.7	1	12/21/18 12:23	12/24/18 17:44	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	9.4	1.5	1	12/21/18 12:23	12/24/18 17:44	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	9.4	1.6	1	12/21/18 12:23	12/24/18 17:44	111-44-4	
2-Chloronaphthalene	ND	ug/L	9.4	1.5	1	12/21/18 12:23	12/24/18 17:44	91-58-7	
2-Chlorophenol	ND	ug/L	9.4	1.4	1	12/21/18 12:23	12/24/18 17:44	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	9.4	1.5	1	12/21/18 12:23	12/24/18 17:44	7005-72-3	
Chrysene	ND	ug/L	9.4	2.0	1	12/21/18 12:23	12/24/18 17:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	9.4	1.9	1	12/21/18 12:23	12/24/18 17:44	53-70-3	
Dibenzofuran	ND	ug/L	9.4	1.6	1	12/21/18 12:23	12/24/18 17:44	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	9.4	1.4	1	12/21/18 12:23	12/24/18 17:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	9.4	1.3	1	12/21/18 12:23	12/24/18 17:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	9.4	1.3	1	12/21/18 12:23	12/24/18 17:44	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	47.2	3.6	1	12/21/18 12:23	12/24/18 17:44	91-94-1	
2,4-Dichlorophenol	ND	ug/L	9.4	1.5	1	12/21/18 12:23	12/24/18 17:44	120-83-2	
Diethylphthalate	ND	ug/L	9.4	1.5	1	12/21/18 12:23	12/24/18 17:44	84-66-2	
2,4-Dimethylphenol	ND	ug/L	9.4	1.5	1	12/21/18 12:23	12/24/18 17:44	105-67-9	
Dimethylphthalate	ND	ug/L	9.4	1.3	1	12/21/18 12:23	12/24/18 17:44	131-11-3	
Di-n-butylphthalate	ND	ug/L	9.4	1.9	1	12/21/18 12:23	12/24/18 17:44	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	18.9	2.1	1	12/21/18 12:23	12/24/18 17:44	534-52-1	
2,4-Dinitrophenol	ND	ug/L	47.2	4.8	1	12/21/18 12:23	12/24/18 17:44	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	9.4	1.4	1	12/21/18 12:23	12/24/18 17:44	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	9.4	1.3	1	12/21/18 12:23	12/24/18 17:44	606-20-2	
Di-n-octylphthalate	ND	ug/L	9.4	1.4	1	12/21/18 12:23	12/24/18 17:44	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.7	2.2	1	12/21/18 12:23	12/24/18 17:44	117-81-7	
Fluoranthene	ND	ug/L	9.4	2.1	1	12/21/18 12:23	12/24/18 17:44	206-44-0	
Fluorene	ND	ug/L	9.4	1.5	1	12/21/18 12:23	12/24/18 17:44	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	9.4	1.5	1	12/21/18 12:23	12/24/18 17:44	87-68-3	
Hexachlorobenzene	ND	ug/L	9.4	1.6	1	12/21/18 12:23	12/24/18 17:44	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	9.4	1.3	1	12/21/18 12:23	12/24/18 17:44	77-47-4	
Hexachloroethane	ND	ug/L	9.4	1.7	1	12/21/18 12:23	12/24/18 17:44	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	9.4	1.9	1	12/21/18 12:23	12/24/18 17:44	193-39-5	
Isophorone	ND	ug/L	9.4	1.4	1	12/21/18 12:23	12/24/18 17:44	78-59-1	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Sample Project No.: 92411780

Sample: **FB-01** Lab ID: **92411780008** Collected: 12/19/18 15:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC			Analytical Method: EPA 8270D Preparation Method: EPA 3510C						
1-Methylnaphthalene	ND	ug/L	9.4	1.3	1	12/21/18 12:23	12/24/18 17:44	90-12-0	
2-Methylnaphthalene	ND	ug/L	9.4	1.3	1	12/21/18 12:23	12/24/18 17:44	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	9.4	1.5	1	12/21/18 12:23	12/24/18 17:44	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	9.4	1.3	1	12/21/18 12:23	12/24/18 17:44	15831-10-4	
Naphthalene	ND	ug/L	9.4	1.3	1	12/21/18 12:23	12/24/18 17:44	91-20-3	
2-Nitroaniline	ND	ug/L	47.2	2.1	1	12/21/18 12:23	12/24/18 17:44	88-74-4	
3-Nitroaniline	ND	ug/L	47.2	2.5	1	12/21/18 12:23	12/24/18 17:44	99-09-2	
4-Nitroaniline	ND	ug/L	47.2	3.2	1	12/21/18 12:23	12/24/18 17:44	100-01-6	
Nitrobenzene	ND	ug/L	9.4	1.5	1	12/21/18 12:23	12/24/18 17:44	98-95-3	
2-Nitrophenol	ND	ug/L	9.4	1.6	1	12/21/18 12:23	12/24/18 17:44	88-75-5	
4-Nitrophenol	ND	ug/L	47.2	4.0	1	12/21/18 12:23	12/24/18 17:44	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	9.4	1.5	1	12/21/18 12:23	12/24/18 17:44	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	9.4	1.6	1	12/21/18 12:23	12/24/18 17:44	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	9.4	1.4	1	12/21/18 12:23	12/24/18 17:44	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	9.4	1.7	1	12/21/18 12:23	12/24/18 17:44	108-60-1	
Pentachlorophenol	ND	ug/L	47.2	3.3	1	12/21/18 12:23	12/24/18 17:44	87-86-5	
Phenanthrene	ND	ug/L	9.4	1.5	1	12/21/18 12:23	12/24/18 17:44	85-01-8	
Phenol	ND	ug/L	9.4	1.2	1	12/21/18 12:23	12/24/18 17:44	108-95-2	
Pyrene	ND	ug/L	9.4	2.1	1	12/21/18 12:23	12/24/18 17:44	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	9.4	1.3	1	12/21/18 12:23	12/24/18 17:44	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	9.4	1.4	1	12/21/18 12:23	12/24/18 17:44	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	9.4	1.4	1	12/21/18 12:23	12/24/18 17:44	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	52	%	21-110		1	12/21/18 12:23	12/24/18 17:44	4165-60-0	
2-Fluorobiphenyl (S)	53	%	27-110		1	12/21/18 12:23	12/24/18 17:44	321-60-8	
Terphenyl-d14 (S)	22	%	31-107		1	12/21/18 12:23	12/24/18 17:44	1718-51-0	S0
Phenol-d6 (S)	17	%	10-110		1	12/21/18 12:23	12/24/18 17:44	13127-88-3	
2-Fluorophenol (S)	24	%	12-110		1	12/21/18 12:23	12/24/18 17:44	367-12-4	
2,4,6-Tribromophenol (S)	43	%	27-110		1	12/21/18 12:23	12/24/18 17:44	118-79-6	
8260 MSV Low Level SC			Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	10.0	1		12/27/18 13:43	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/27/18 13:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/27/18 13:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/27/18 13:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/27/18 13:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/27/18 13:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/27/18 13:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/27/18 13:43	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/27/18 13:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/27/18 13:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/27/18 13:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/27/18 13:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/27/18 13:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/27/18 13:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/27/18 13:43	106-43-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: FB-01 **Lab ID: 92411780008** Collected: 12/19/18 15:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/27/18 13:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/27/18 13:43	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/27/18 13:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/27/18 13:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/27/18 13:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 13:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/27/18 13:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/27/18 13:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/27/18 13:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/27/18 13:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/27/18 13:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/27/18 13:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/27/18 13:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/27/18 13:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/27/18 13:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/27/18 13:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/27/18 13:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/27/18 13:43	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/27/18 13:43	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/27/18 13:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/27/18 13:43	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/27/18 13:43	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/27/18 13:43	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/27/18 13:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/27/18 13:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/27/18 13:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/27/18 13:43	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/27/18 13:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/27/18 13:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/27/18 13:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/27/18 13:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/27/18 13:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 13:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/27/18 13:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/27/18 13:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/27/18 13:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/27/18 13:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/27/18 13:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/27/18 13:43	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/27/18 13:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/27/18 13:43	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/27/18 13:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/27/18 13:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/27/18 13:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/27/18 13:43	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: FB-01									
Lab ID: 92411780008									
Collected: 12/19/18 15:00 Received: 12/20/18 11:15 Matrix: Water									
Analytical Method: EPA 8260B									
8260 MSV Low Level SC									
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		12/27/18 13:43	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/27/18 13:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: EQB-01 **Lab ID: 92411780009** Collected: 12/19/18 16:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	9.9	1.6	1	12/21/18 12:23	12/24/18 18:17	83-32-9	
Acenaphthylene	ND	ug/L	9.9	1.5	1	12/21/18 12:23	12/24/18 18:17	208-96-8	
Aniline	ND	ug/L	9.9	1.2	1	12/21/18 12:23	12/24/18 18:17	62-53-3	
Anthracene	ND	ug/L	9.9	1.7	1	12/21/18 12:23	12/24/18 18:17	120-12-7	
Benzo(a)anthracene	ND	ug/L	9.9	2.1	1	12/21/18 12:23	12/24/18 18:17	56-55-3	
Benzo(a)pyrene	ND	ug/L	9.9	2.2	1	12/21/18 12:23	12/24/18 18:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	9.9	2.2	1	12/21/18 12:23	12/24/18 18:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	9.9	2.1	1	12/21/18 12:23	12/24/18 18:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	9.9	2.0	1	12/21/18 12:23	12/24/18 18:17	207-08-9	
Benzoic Acid	ND	ug/L	49.5	5.0	1	12/21/18 12:23	12/24/18 18:17	65-85-0	
Benzyl alcohol	ND	ug/L	19.8	3.0	1	12/21/18 12:23	12/24/18 18:17	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	9.9	1.5	1	12/21/18 12:23	12/24/18 18:17	101-55-3	
Butylbenzylphthalate	ND	ug/L	9.9	2.5	1	12/21/18 12:23	12/24/18 18:17	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	19.8	2.8	1	12/21/18 12:23	12/24/18 18:17	59-50-7	
4-Chloroaniline	ND	ug/L	49.5	2.8	1	12/21/18 12:23	12/24/18 18:17	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	9.9	1.6	1	12/21/18 12:23	12/24/18 18:17	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	9.9	1.7	1	12/21/18 12:23	12/24/18 18:17	111-44-4	
2-Chloronaphthalene	ND	ug/L	9.9	1.6	1	12/21/18 12:23	12/24/18 18:17	91-58-7	
2-Chlorophenol	ND	ug/L	9.9	1.5	1	12/21/18 12:23	12/24/18 18:17	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	9.9	1.5	1	12/21/18 12:23	12/24/18 18:17	7005-72-3	
Chrysene	ND	ug/L	9.9	2.1	1	12/21/18 12:23	12/24/18 18:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	9.9	2.0	1	12/21/18 12:23	12/24/18 18:17	53-70-3	
Dibenzofuran	ND	ug/L	9.9	1.7	1	12/21/18 12:23	12/24/18 18:17	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	9.9	1.5	1	12/21/18 12:23	12/24/18 18:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	9.9	1.4	1	12/21/18 12:23	12/24/18 18:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	9.9	1.4	1	12/21/18 12:23	12/24/18 18:17	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	49.5	3.8	1	12/21/18 12:23	12/24/18 18:17	91-94-1	
2,4-Dichlorophenol	ND	ug/L	9.9	1.5	1	12/21/18 12:23	12/24/18 18:17	120-83-2	
Diethylphthalate	ND	ug/L	9.9	1.6	1	12/21/18 12:23	12/24/18 18:17	84-66-2	
2,4-Dimethylphenol	ND	ug/L	9.9	1.6	1	12/21/18 12:23	12/24/18 18:17	105-67-9	
Dimethylphthalate	ND	ug/L	9.9	1.4	1	12/21/18 12:23	12/24/18 18:17	131-11-3	
Di-n-butylphthalate	ND	ug/L	9.9	2.0	1	12/21/18 12:23	12/24/18 18:17	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	19.8	2.2	1	12/21/18 12:23	12/24/18 18:17	534-52-1	
2,4-Dinitrophenol	ND	ug/L	49.5	5.0	1	12/21/18 12:23	12/24/18 18:17	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	9.9	1.5	1	12/21/18 12:23	12/24/18 18:17	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	9.9	1.4	1	12/21/18 12:23	12/24/18 18:17	606-20-2	
Di-n-octylphthalate	ND	ug/L	9.9	1.5	1	12/21/18 12:23	12/24/18 18:17	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.9	2.3	1	12/21/18 12:23	12/24/18 18:17	117-81-7	
Fluoranthene	ND	ug/L	9.9	2.2	1	12/21/18 12:23	12/24/18 18:17	206-44-0	
Fluorene	ND	ug/L	9.9	1.5	1	12/21/18 12:23	12/24/18 18:17	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	9.9	1.6	1	12/21/18 12:23	12/24/18 18:17	87-68-3	
Hexachlorobenzene	ND	ug/L	9.9	1.6	1	12/21/18 12:23	12/24/18 18:17	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	9.9	1.3	1	12/21/18 12:23	12/24/18 18:17	77-47-4	
Hexachloroethane	ND	ug/L	9.9	1.8	1	12/21/18 12:23	12/24/18 18:17	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	9.9	2.0	1	12/21/18 12:23	12/24/18 18:17	193-39-5	
Isophorone	ND	ug/L	9.9	1.5	1	12/21/18 12:23	12/24/18 18:17	78-59-1	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Sample Project No.: 92411780

Sample: EQB-01 **Lab ID: 92411780009** Collected: 12/19/18 16:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Org SC			Analytical Method: EPA 8270D Preparation Method: EPA 3510C						
1-Methylnaphthalene	ND	ug/L	9.9	1.4	1	12/21/18 12:23	12/24/18 18:17	90-12-0	
2-Methylnaphthalene	ND	ug/L	9.9	1.4	1	12/21/18 12:23	12/24/18 18:17	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	9.9	1.6	1	12/21/18 12:23	12/24/18 18:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	9.9	1.4	1	12/21/18 12:23	12/24/18 18:17	15831-10-4	
Naphthalene	ND	ug/L	9.9	1.4	1	12/21/18 12:23	12/24/18 18:17	91-20-3	
2-Nitroaniline	ND	ug/L	49.5	2.2	1	12/21/18 12:23	12/24/18 18:17	88-74-4	
3-Nitroaniline	ND	ug/L	49.5	2.6	1	12/21/18 12:23	12/24/18 18:17	99-09-2	
4-Nitroaniline	ND	ug/L	49.5	3.3	1	12/21/18 12:23	12/24/18 18:17	100-01-6	
Nitrobenzene	ND	ug/L	9.9	1.6	1	12/21/18 12:23	12/24/18 18:17	98-95-3	
2-Nitrophenol	ND	ug/L	9.9	1.6	1	12/21/18 12:23	12/24/18 18:17	88-75-5	
4-Nitrophenol	ND	ug/L	49.5	4.2	1	12/21/18 12:23	12/24/18 18:17	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	9.9	1.6	1	12/21/18 12:23	12/24/18 18:17	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	9.9	1.7	1	12/21/18 12:23	12/24/18 18:17	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	9.9	1.4	1	12/21/18 12:23	12/24/18 18:17	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	9.9	1.8	1	12/21/18 12:23	12/24/18 18:17	108-60-1	
Pentachlorophenol	ND	ug/L	49.5	3.5	1	12/21/18 12:23	12/24/18 18:17	87-86-5	
Phenanthrene	ND	ug/L	9.9	1.6	1	12/21/18 12:23	12/24/18 18:17	85-01-8	
Phenol	ND	ug/L	9.9	1.3	1	12/21/18 12:23	12/24/18 18:17	108-95-2	
Pyrene	ND	ug/L	9.9	2.2	1	12/21/18 12:23	12/24/18 18:17	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	9.9	1.4	1	12/21/18 12:23	12/24/18 18:17	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	9.9	1.5	1	12/21/18 12:23	12/24/18 18:17	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	9.9	1.4	1	12/21/18 12:23	12/24/18 18:17	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	60	%	21-110		1	12/21/18 12:23	12/24/18 18:17	4165-60-0	
2-Fluorobiphenyl (S)	63	%	27-110		1	12/21/18 12:23	12/24/18 18:17	321-60-8	
Terphenyl-d14 (S)	28	%	31-107		1	12/21/18 12:23	12/24/18 18:17	1718-51-0	S0
Phenol-d6 (S)	19	%	10-110		1	12/21/18 12:23	12/24/18 18:17	13127-88-3	
2-Fluorophenol (S)	28	%	12-110		1	12/21/18 12:23	12/24/18 18:17	367-12-4	
2,4,6-Tribromophenol (S)	50	%	27-110		1	12/21/18 12:23	12/24/18 18:17	118-79-6	
8260 MSV Low Level SC			Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	10.0	1		12/27/18 13:59	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/27/18 13:59	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/27/18 13:59	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/27/18 13:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/27/18 13:59	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/27/18 13:59	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/27/18 13:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/27/18 13:59	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/27/18 13:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/27/18 13:59	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/27/18 13:59	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/27/18 13:59	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/27/18 13:59	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/27/18 13:59	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/27/18 13:59	106-43-4	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Sample Project No.: 92411780

Sample: EQB-01 **Lab ID: 92411780009** Collected: 12/19/18 16:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/27/18 13:59	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/27/18 13:59	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/27/18 13:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/27/18 13:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/27/18 13:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 13:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/27/18 13:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/27/18 13:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/27/18 13:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/27/18 13:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/27/18 13:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/27/18 13:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/27/18 13:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/27/18 13:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/27/18 13:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/27/18 13:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/27/18 13:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/27/18 13:59	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/27/18 13:59	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/27/18 13:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/27/18 13:59	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/27/18 13:59	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/27/18 13:59	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/27/18 13:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/27/18 13:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/27/18 13:59	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/27/18 13:59	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/27/18 13:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/27/18 13:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/27/18 13:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/27/18 13:59	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/27/18 13:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 13:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/27/18 13:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/27/18 13:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/27/18 13:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/27/18 13:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/27/18 13:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/27/18 13:59	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/27/18 13:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/27/18 13:59	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/27/18 13:59	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/27/18 13:59	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/27/18 13:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/27/18 13:59	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: EQB-01		Lab ID: 92411780009		Collected: 12/19/18 16:00	Received: 12/20/18 11:15	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260B							
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		12/27/18 13:59	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/27/18 13:59	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Sample Project No.: 92411780

Sample: TRIP BLANK **Lab ID: 92411780010** Collected: 12/19/18 00:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
Acetone	ND	ug/L	25.0	10.0	1		12/27/18 14:15	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		12/27/18 14:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		12/27/18 14:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		12/27/18 14:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/27/18 14:15	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		12/27/18 14:15	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		12/27/18 14:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/27/18 14:15	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/27/18 14:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		12/27/18 14:15	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		12/27/18 14:15	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		12/27/18 14:15	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/27/18 14:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		12/27/18 14:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		12/27/18 14:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		12/27/18 14:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		12/27/18 14:15	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		12/27/18 14:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		12/27/18 14:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		12/27/18 14:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 14:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		12/27/18 14:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		12/27/18 14:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/27/18 14:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/27/18 14:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		12/27/18 14:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		12/27/18 14:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/27/18 14:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/27/18 14:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		12/27/18 14:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		12/27/18 14:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/27/18 14:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/27/18 14:15	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/27/18 14:15	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/27/18 14:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		12/27/18 14:15	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		12/27/18 14:15	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		12/27/18 14:15	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		12/27/18 14:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		12/27/18 14:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/27/18 14:15	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/27/18 14:15	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		12/27/18 14:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		12/27/18 14:15	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		12/27/18 14:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/27/18 14:15	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Sample: TRIP BLANK **Lab ID: 92411780010** Collected: 12/19/18 00:00 Received: 12/20/18 11:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
Toluene	ND	ug/L	1.0	0.26	1		12/27/18 14:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		12/27/18 14:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		12/27/18 14:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/27/18 14:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/27/18 14:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/27/18 14:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/27/18 14:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/27/18 14:15	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		12/27/18 14:15	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/27/18 14:15	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/27/18 14:15	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/27/18 14:15	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/27/18 14:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/27/18 14:15	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		12/27/18 14:15	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/27/18 14:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

QC Batch: 449771 Analysis Method: EPA 8260B
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC
 Associated Lab Samples: 92411780001, 92411780002, 92411780003, 92411780004, 92411780005, 92411780006, 92411780007, 92411780008, 92411780009, 92411780010

METHOD BLANK: 2462062 Matrix: Water
 Associated Lab Samples: 92411780001, 92411780002, 92411780003, 92411780004, 92411780005, 92411780006, 92411780007, 92411780008, 92411780009, 92411780010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.33	12/27/18 13:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.48	12/27/18 13:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.40	12/27/18 13:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.29	12/27/18 13:27	
1,1-Dichloroethane	ug/L	ND	1.0	0.32	12/27/18 13:27	
1,1-Dichloroethene	ug/L	ND	1.0	0.56	12/27/18 13:27	
1,1-Dichloropropene	ug/L	ND	1.0	0.49	12/27/18 13:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.33	12/27/18 13:27	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.41	12/27/18 13:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.35	12/27/18 13:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	2.0	12/27/18 13:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.30	12/27/18 13:27	
1,2-Dichloroethane	ug/L	ND	1.0	0.24	12/27/18 13:27	
1,2-Dichloropropane	ug/L	ND	1.0	0.27	12/27/18 13:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.24	12/27/18 13:27	
1,3-Dichloropropane	ug/L	ND	1.0	0.28	12/27/18 13:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.33	12/27/18 13:27	
2,2-Dichloropropane	ug/L	ND	1.0	0.13	12/27/18 13:27	
2-Butanone (MEK)	ug/L	ND	5.0	0.96	12/27/18 13:27	
2-Chlorotoluene	ug/L	ND	1.0	0.35	12/27/18 13:27	
2-Hexanone	ug/L	ND	5.0	0.46	12/27/18 13:27	
4-Chlorotoluene	ug/L	ND	1.0	0.31	12/27/18 13:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	0.33	12/27/18 13:27	
Acetone	ug/L	ND	25.0	10.0	12/27/18 13:27	
Benzene	ug/L	ND	1.0	0.25	12/27/18 13:27	
Bromobenzene	ug/L	ND	1.0	0.30	12/27/18 13:27	
Bromochloromethane	ug/L	ND	1.0	0.17	12/27/18 13:27	
Bromodichloromethane	ug/L	ND	1.0	0.18	12/27/18 13:27	
Bromoform	ug/L	ND	1.0	0.26	12/27/18 13:27	
Bromomethane	ug/L	ND	5.0	0.29	12/27/18 13:27	
Carbon tetrachloride	ug/L	ND	1.0	0.25	12/27/18 13:27	
Chlorobenzene	ug/L	ND	1.0	0.23	12/27/18 13:27	
Chloroethane	ug/L	ND	1.0	0.54	12/27/18 13:27	
Chloroform	ug/L	0.27J	1.0	0.14	12/27/18 13:27	
Chloromethane	ug/L	ND	1.0	0.11	12/27/18 13:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.19	12/27/18 13:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.13	12/27/18 13:27	
Dibromochloromethane	ug/L	ND	1.0	0.21	12/27/18 13:27	
Dibromomethane	ug/L	ND	1.0	0.21	12/27/18 13:27	
Dichlorodifluoromethane	ug/L	ND	1.0	0.21	12/27/18 13:27	

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

METHOD BLANK: 2462062

Matrix: Water

Associated Lab Samples: 92411780001, 92411780002, 92411780003, 92411780004, 92411780005, 92411780006, 92411780007, 92411780008, 92411780009, 92411780010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	0.12	12/27/18 13:27	
Ethylbenzene	ug/L	ND	1.0	0.30	12/27/18 13:27	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.71	12/27/18 13:27	
m&p-Xylene	ug/L	ND	2.0	0.66	12/27/18 13:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	12/27/18 13:27	
Methylene Chloride	ug/L	ND	2.0	0.97	12/27/18 13:27	
Naphthalene	ug/L	0.27J	1.0	0.24	12/27/18 13:27	
o-Xylene	ug/L	ND	1.0	0.23	12/27/18 13:27	
p-Isopropyltoluene	ug/L	ND	1.0	0.31	12/27/18 13:27	
Styrene	ug/L	ND	1.0	0.26	12/27/18 13:27	
Tetrachloroethene	ug/L	ND	1.0	0.46	12/27/18 13:27	
Toluene	ug/L	ND	1.0	0.26	12/27/18 13:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.49	12/27/18 13:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.26	12/27/18 13:27	
Trichloroethene	ug/L	ND	1.0	0.47	12/27/18 13:27	
Trichlorofluoromethane	ug/L	ND	1.0	0.20	12/27/18 13:27	
Vinyl acetate	ug/L	ND	2.0	0.35	12/27/18 13:27	
Vinyl chloride	ug/L	ND	1.0	0.62	12/27/18 13:27	
Xylene (Total)	ug/L	ND	1.0	1.0	12/27/18 13:27	
1,2-Dichloroethane-d4 (S)	%	97	70-130		12/27/18 13:27	
4-Bromofluorobenzene (S)	%	97	70-130		12/27/18 13:27	
Toluene-d8 (S)	%	102	70-130		12/27/18 13:27	

LABORATORY CONTROL SAMPLE: 2462063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.3	105	70-130	
1,1,1-Trichloroethane	ug/L	50	49.2	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	70-130	
1,1,2-Trichloroethane	ug/L	50	50.2	100	70-130	
1,1-Dichloroethane	ug/L	50	48.6	97	70-130	
1,1-Dichloroethene	ug/L	50	50.7	101	70-130	
1,1-Dichloropropene	ug/L	50	46.4	93	70-130	
1,2,3-Trichlorobenzene	ug/L	50	55.1	110	70-130	
1,2,3-Trichloropropane	ug/L	50	49.4	99	70-130	
1,2,4-Trichlorobenzene	ug/L	50	54.9	110	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.4	101	70-130	
1,2-Dichlorobenzene	ug/L	50	51.2	102	70-130	
1,2-Dichloroethane	ug/L	50	47.8	96	70-130	
1,2-Dichloropropane	ug/L	50	48.3	97	70-130	
1,3-Dichlorobenzene	ug/L	50	51.0	102	70-130	
1,3-Dichloropropane	ug/L	50	49.0	98	70-130	
1,4-Dichlorobenzene	ug/L	50	50.1	100	70-130	

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

LABORATORY CONTROL SAMPLE: 2462063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	58.9	118	70-130	
2-Butanone (MEK)	ug/L	100	95.0	95	70-130	
2-Chlorotoluene	ug/L	50	50.0	100	70-130	
2-Hexanone	ug/L	100	100	100	70-130	
4-Chlorotoluene	ug/L	50	50.5	101	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.4	96	70-130	
Acetone	ug/L	100	89.9	90	70-130	
Benzene	ug/L	50	49.3	99	70-130	
Bromobenzene	ug/L	50	49.8	100	70-130	
Bromochloromethane	ug/L	50	49.4	99	70-130	
Bromodichloromethane	ug/L	50	50.9	102	70-130	
Bromoform	ug/L	50	49.0	98	70-130	
Bromomethane	ug/L	50	45.3	91	70-130	
Carbon tetrachloride	ug/L	50	49.8	100	70-130	
Chlorobenzene	ug/L	50	48.8	98	70-130	
Chloroethane	ug/L	50	44.0	88	70-130	
Chloroform	ug/L	50	45.1	90	70-130	
Chloromethane	ug/L	50	50.3	101	70-130	
cis-1,2-Dichloroethene	ug/L	50	48.2	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.6	107	70-130	
Dibromochloromethane	ug/L	50	51.3	103	70-130	
Dibromomethane	ug/L	50	48.7	97	70-130	
Dichlorodifluoromethane	ug/L	50	48.1	96	70-130	
Diisopropyl ether	ug/L	50	48.4	97	70-130	
Ethylbenzene	ug/L	50	49.6	99	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.3	109	70-130	
m&p-Xylene	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	48.0	96	70-130	
Methylene Chloride	ug/L	50	47.6	95	70-130	
Naphthalene	ug/L	50	53.0	106	70-130	
o-Xylene	ug/L	50	50.1	100	70-130	
p-Isopropyltoluene	ug/L	50	50.8	102	70-130	
Styrene	ug/L	50	51.1	102	70-130	
Tetrachloroethene	ug/L	50	48.5	97	70-130	
Toluene	ug/L	50	48.3	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.2	98	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.5	107	70-130	
Trichloroethene	ug/L	50	49.6	99	70-130	
Trichlorofluoromethane	ug/L	50	49.8	100	70-130	
Vinyl acetate	ug/L	100	102	102	70-130	
Vinyl chloride	ug/L	50	50.1	100	70-130	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Parameter	Units	2462064		2462065		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92411780006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.8	23.0	114	115	70-130	1	30		
1,1,1-Trichloroethane	ug/L	ND	20	20	21.5	22.1	108	110	70-130	2	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.3	22.6	111	113	70-130	2	30		
1,1,2-Trichloroethane	ug/L	ND	20	20	22.3	22.7	111	113	70-130	2	30		
1,1-Dichloroethane	ug/L	ND	20	20	20.8	21.7	104	108	70-130	4	30		
1,1-Dichloroethene	ug/L	ND	20	20	22.8	23.2	114	116	70-130	2	30		
1,1-Dichloropropene	ug/L	ND	20	20	20.7	20.9	103	104	70-130	1	30		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.7	24.0	108	120	70-130	10	30		
1,2,3-Trichloropropane	ug/L	ND	20	20	22.7	23.0	114	115	70-130	1	30		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.6	24.7	113	123	70-130	9	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.1	22.2	101	111	70-130	10	30		
1,2-Dichlorobenzene	ug/L	ND	20	20	21.9	22.9	109	114	70-130	4	30		
1,2-Dichloroethane	ug/L	ND	20	20	20.4	20.9	102	104	70-130	2	30		
1,2-Dichloropropane	ug/L	ND	20	20	22.0	22.3	110	111	70-130	1	30		
1,3-Dichlorobenzene	ug/L	ND	20	20	22.1	22.1	110	110	70-130	0	30		
1,3-Dichloropropane	ug/L	ND	20	20	22.6	22.4	113	112	70-130	1	30		
1,4-Dichlorobenzene	ug/L	ND	20	20	22.1	22.8	110	114	70-130	3	30		
2,2-Dichloropropane	ug/L	ND	20	20	26.0	26.5	130	133	70-130	2	30	M1	
2-Butanone (MEK)	ug/L	ND	40	40	43.2	45.5	108	114	70-130	5	30		
2-Chlorotoluene	ug/L	ND	20	20	21.3	22.7	107	114	70-130	6	30		
2-Hexanone	ug/L	ND	40	40	45.4	47.8	113	119	70-130	5	30		
4-Chlorotoluene	ug/L	ND	20	20	22.2	22.6	111	113	70-130	2	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	43.2	46.8	108	117	70-130	8	30		
Acetone	ug/L	ND	40	40	40.1	43.5	100	109	70-130	8	30		
Benzene	ug/L	ND	20	20	21.9	23.2	110	116	70-130	6	30		
Bromobenzene	ug/L	ND	20	20	21.2	22.3	106	111	70-130	5	30		
Bromochloromethane	ug/L	ND	20	20	21.8	22.2	109	111	70-130	2	30		
Bromodichloromethane	ug/L	ND	20	20	22.0	21.5	110	108	70-130	2	30		
Bromoform	ug/L	ND	20	20	20.2	20.3	101	102	70-130	0	30		
Bromomethane	ug/L	ND	20	20	19.1	18.9	95	95	70-130	1	30		
Carbon tetrachloride	ug/L	ND	20	20	22.2	23.2	111	116	70-130	4	30		
Chlorobenzene	ug/L	ND	20	20	22.0	22.2	110	111	70-130	1	30		
Chloroethane	ug/L	ND	20	20	19.9	18.2	99	91	70-130	9	30		
Chloroform	ug/L	ND	20	20	20.1	20.1	101	101	70-130	0	30		
Chloromethane	ug/L	ND	20	20	19.9	20.1	99	101	70-130	1	30		
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.1	22.1	106	110	70-130	4	30		
cis-1,3-Dichloropropene	ug/L	ND	20	20	23.1	24.1	116	121	70-130	4	30		
Dibromochloromethane	ug/L	ND	20	20	22.0	22.5	110	113	70-130	2	30		
Dibromomethane	ug/L	ND	20	20	21.7	22.1	109	110	70-130	2	30		
Dichlorodifluoromethane	ug/L	ND	20	20	15.9	15.7	80	78	70-130	2	30		
Diisopropyl ether	ug/L	ND	20	20	20.9	21.2	105	106	70-130	1	30		
Ethylbenzene	ug/L	ND	20	20	22.6	22.7	113	114	70-130	1	30		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.9	24.9	124	125	70-130	0	30		
m&p-Xylene	ug/L	ND	40	40	45.9	46.2	115	116	70-130	1	30		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Parameter	Units	2462064		2462065		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	20.7	102	103	70-130	2	30	
Methylene Chloride	ug/L	ND	20	20	19.7	20.3	98	102	70-130	3	30	
Naphthalene	ug/L	ND	20	20	20.0	22.9	100	115	70-130	14	30	
o-Xylene	ug/L	ND	20	20	23.3	23.1	116	115	70-130	1	30	
p-Isopropyltoluene	ug/L	ND	20	20	23.0	23.7	115	118	70-130	3	30	
Styrene	ug/L	ND	20	20	22.5	22.8	113	114	70-130	1	30	
Tetrachloroethene	ug/L	ND	20	20	21.8	21.9	109	110	70-130	1	30	
Toluene	ug/L	ND	20	20	21.5	22.4	107	112	70-130	4	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	22.5	110	113	70-130	3	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.3	23.1	112	115	70-130	3	30	
Trichloroethene	ug/L	ND	20	20	21.8	22.3	109	112	70-130	3	30	
Trichlorofluoromethane	ug/L	ND	20	20	22.9	22.9	114	114	70-130	0	30	
Vinyl acetate	ug/L	ND	40	40	44.0	45.8	110	115	70-130	4	30	
Vinyl chloride	ug/L	ND	20	20	21.3	21.5	107	107	70-130	1	30	
Xylene (Total)	ug/L	ND	60	60	69.2	69.3	115	115	70-130	0	30	
1,2-Dichloroethane-d4 (S)	%						95	94	70-130			
4-Bromofluorobenzene (S)	%						101	99	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

QC Batch: 449049 Analysis Method: EPA 8270D
 QC Batch Method: EPA 3510C Analysis Description: 8270 Water MSSV SC
 Associated Lab Samples: 92411780001, 92411780002, 92411780003, 92411780004, 92411780005, 92411780006, 92411780007, 92411780008, 92411780009

METHOD BLANK: 2459225 Matrix: Water
 Associated Lab Samples: 92411780001, 92411780002, 92411780003, 92411780004, 92411780005, 92411780006, 92411780007, 92411780008, 92411780009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	1.4	12/24/18 10:38	
1,2-Dichlorobenzene	ug/L	ND	10.0	1.5	12/24/18 10:38	
1,3-Dichlorobenzene	ug/L	ND	10.0	1.4	12/24/18 10:38	
1,4-Dichlorobenzene	ug/L	ND	10.0	1.4	12/24/18 10:38	
1-Methylnaphthalene	ug/L	ND	10.0	1.4	12/24/18 10:38	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	1.8	12/24/18 10:38	
2,4,5-Trichlorophenol	ug/L	ND	10.0	1.5	12/24/18 10:38	
2,4,6-Trichlorophenol	ug/L	ND	10.0	1.4	12/24/18 10:38	
2,4-Dichlorophenol	ug/L	ND	10.0	1.6	12/24/18 10:38	
2,4-Dimethylphenol	ug/L	ND	10.0	1.6	12/24/18 10:38	
2,4-Dinitrophenol	ug/L	ND	50.0	5.1	12/24/18 10:38	
2,4-Dinitrotoluene	ug/L	ND	10.0	1.5	12/24/18 10:38	
2,6-Dinitrotoluene	ug/L	ND	10.0	1.4	12/24/18 10:38	
2-Chloronaphthalene	ug/L	ND	10.0	1.6	12/24/18 10:38	
2-Chlorophenol	ug/L	ND	10.0	1.5	12/24/18 10:38	
2-Methylnaphthalene	ug/L	ND	10.0	1.4	12/24/18 10:38	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	1.6	12/24/18 10:38	
2-Nitroaniline	ug/L	ND	50.0	2.3	12/24/18 10:38	
2-Nitrophenol	ug/L	ND	10.0	1.6	12/24/18 10:38	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	1.4	12/24/18 10:38	
3,3'-Dichlorobenzidine	ug/L	ND	50.0	3.9	12/24/18 10:38	
3-Nitroaniline	ug/L	ND	50.0	2.7	12/24/18 10:38	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	2.2	12/24/18 10:38	
4-Bromophenylphenyl ether	ug/L	ND	10.0	1.5	12/24/18 10:38	
4-Chloro-3-methylphenol	ug/L	ND	20.0	2.8	12/24/18 10:38	
4-Chloroaniline	ug/L	ND	50.0	2.8	12/24/18 10:38	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	1.6	12/24/18 10:38	
4-Nitroaniline	ug/L	ND	50.0	3.4	12/24/18 10:38	
4-Nitrophenol	ug/L	ND	50.0	4.3	12/24/18 10:38	
Acenaphthene	ug/L	ND	10.0	1.6	12/24/18 10:38	
Acenaphthylene	ug/L	ND	10.0	1.5	12/24/18 10:38	
Aniline	ug/L	ND	10.0	1.2	12/24/18 10:38	
Anthracene	ug/L	ND	10.0	1.7	12/24/18 10:38	
Benzo(a)anthracene	ug/L	ND	10.0	2.1	12/24/18 10:38	
Benzo(a)pyrene	ug/L	ND	10.0	2.2	12/24/18 10:38	
Benzo(b)fluoranthene	ug/L	ND	10.0	2.2	12/24/18 10:38	
Benzo(g,h,i)perylene	ug/L	ND	10.0	2.1	12/24/18 10:38	
Benzo(k)fluoranthene	ug/L	ND	10.0	2.0	12/24/18 10:38	
Benzoic Acid	ug/L	ND	50.0	5.0	12/24/18 10:38	
Benzyl alcohol	ug/L	ND	20.0	3.1	12/24/18 10:38	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

METHOD BLANK: 2459225

Matrix: Water

Associated Lab Samples: 92411780001, 92411780002, 92411780003, 92411780004, 92411780005, 92411780006, 92411780007, 92411780008, 92411780009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	1.6	12/24/18 10:38	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	1.7	12/24/18 10:38	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	2.3	12/24/18 10:38	
Butylbenzylphthalate	ug/L	ND	10.0	2.5	12/24/18 10:38	
Chrysene	ug/L	ND	10.0	2.1	12/24/18 10:38	
Di-n-butylphthalate	ug/L	ND	10.0	2.0	12/24/18 10:38	
Di-n-octylphthalate	ug/L	ND	10.0	1.5	12/24/18 10:38	
Dibenz(a,h)anthracene	ug/L	ND	10.0	2.0	12/24/18 10:38	
Dibenzofuran	ug/L	ND	10.0	1.7	12/24/18 10:38	
Diethylphthalate	ug/L	ND	10.0	1.6	12/24/18 10:38	
Dimethylphthalate	ug/L	ND	10.0	1.4	12/24/18 10:38	
Fluoranthene	ug/L	ND	10.0	2.2	12/24/18 10:38	
Fluorene	ug/L	ND	10.0	1.6	12/24/18 10:38	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	1.6	12/24/18 10:38	
Hexachlorobenzene	ug/L	ND	10.0	1.7	12/24/18 10:38	
Hexachlorocyclopentadiene	ug/L	ND	10.0	1.3	12/24/18 10:38	
Hexachloroethane	ug/L	ND	10.0	1.8	12/24/18 10:38	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	2.0	12/24/18 10:38	
Isophorone	ug/L	ND	10.0	1.5	12/24/18 10:38	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	1.7	12/24/18 10:38	
N-Nitrosodimethylamine	ug/L	ND	10.0	1.6	12/24/18 10:38	
N-Nitrosodiphenylamine	ug/L	ND	10.0	1.4	12/24/18 10:38	
Naphthalene	ug/L	ND	10.0	1.4	12/24/18 10:38	
Nitrobenzene	ug/L	ND	10.0	1.6	12/24/18 10:38	
Pentachlorophenol	ug/L	ND	50.0	3.5	12/24/18 10:38	
Phenanthrene	ug/L	ND	10.0	1.6	12/24/18 10:38	
Phenol	ug/L	ND	10.0	1.3	12/24/18 10:38	
Pyrene	ug/L	ND	10.0	2.2	12/24/18 10:38	
2,4,6-Tribromophenol (S)	%	79	27-110		12/24/18 10:38	
2-Fluorobiphenyl (S)	%	61	27-110		12/24/18 10:38	
2-Fluorophenol (S)	%	31	12-110		12/24/18 10:38	
Nitrobenzene-d5 (S)	%	58	21-110		12/24/18 10:38	
Phenol-d6 (S)	%	20	10-110		12/24/18 10:38	
Terphenyl-d14 (S)	%	73	31-107		12/24/18 10:38	

LABORATORY CONTROL SAMPLE: 2459226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	34.2	68	70-130	
1,2-Dichlorobenzene	ug/L	50	29.7	59	70-130	
1,3-Dichlorobenzene	ug/L	50	28.4	57	70-130	
1,4-Dichlorobenzene	ug/L	50	30.9	62	70-130	
1-Methylnaphthalene	ug/L	50	37.8	76	70-130	

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

LABORATORY CONTROL SAMPLE: 2459226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2'-Oxybis(1-chloropropane)	ug/L	50	26.8	54	70-130	
2,4,5-Trichlorophenol	ug/L	50	33.6	67	70-130	
2,4,6-Trichlorophenol	ug/L	50	36.1	72	70-130	
2,4-Dichlorophenol	ug/L	50	33.0	66	70-130	
2,4-Dimethylphenol	ug/L	50	29.3	59	70-130	
2,4-Dinitrophenol	ug/L	250	171	69	70-130	
2,4-Dinitrotoluene	ug/L	50	42.1	84	70-130	
2,6-Dinitrotoluene	ug/L	50	42.8	86	70-130	
2-Chloronaphthalene	ug/L	50	35.1	70	70-130	
2-Chlorophenol	ug/L	50	26.7	53	70-130	
2-Methylnaphthalene	ug/L	50	38.5	77	70-130	
2-Methylphenol(o-Cresol)	ug/L	50	23.8	48	70-130	
2-Nitroaniline	ug/L	100	67.2	67	70-130	
2-Nitrophenol	ug/L	50	33.5	67	70-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	21.2	42	70-130	
3,3'-Dichlorobenzidine	ug/L	100	73.4	73	70-130	
3-Nitroaniline	ug/L	100	71.2	71	70-130	
4,6-Dinitro-2-methylphenol	ug/L	100	90.5	91	70-130	
4-Bromophenylphenyl ether	ug/L	50	44.5	89	70-130	
4-Chloro-3-methylphenol	ug/L	100	64.9	65	70-130	
4-Chloroaniline	ug/L	100	64.6	65	70-130	
4-Chlorophenylphenyl ether	ug/L	50	40.9	82	70-130	
4-Nitroaniline	ug/L	100	74.4	74	70-130	
4-Nitrophenol	ug/L	250	83.8	34	70-130	
Acenaphthene	ug/L	50	38.9	78	70-130	
Acenaphthylene	ug/L	50	41.1	82	70-130	
Aniline	ug/L	50	26.3	53	70-130	
Anthracene	ug/L	50	44.0	88	70-130	
Benzo(a)anthracene	ug/L	50	43.8	88	70-130	
Benzo(a)pyrene	ug/L	50	45.1	90	70-130	
Benzo(b)fluoranthene	ug/L	50	43.9	88	70-130	
Benzo(g,h,i)perylene	ug/L	50	46.8	94	70-130	
Benzo(k)fluoranthene	ug/L	50	45.2	90	70-130	
Benzoic Acid	ug/L	250	30.2J	12	70-130	
Benzyl alcohol	ug/L	100	55.4	55	70-130	
bis(2-Chloroethoxy)methane	ug/L	50	34.3	69	70-130	
bis(2-Chloroethyl) ether	ug/L	50	31.5	63	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	50	39.2	78	70-130	
Butylbenzylphthalate	ug/L	50	38.4	77	70-130	
Chrysene	ug/L	50	43.5	87	70-130	
Di-n-butylphthalate	ug/L	50	40.9	82	70-130	
Di-n-octylphthalate	ug/L	50	42.6	85	70-130	
Dibenz(a,h)anthracene	ug/L	50	47.3	95	70-130	
Dibenzofuran	ug/L	50	38.5	77	70-130	
Diethylphthalate	ug/L	50	40.3	81	70-130	
Dimethylphthalate	ug/L	50	39.3	79	70-130	
Fluoranthene	ug/L	50	48.1	96	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

LABORATORY CONTROL SAMPLE: 2459226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/L	50	42.0	84	70-130	
Hexachloro-1,3-butadiene	ug/L	50	33.2	66	70-130	
Hexachlorobenzene	ug/L	50	45.5	91	70-130	
Hexachlorocyclopentadiene	ug/L	50	32.1	64	70-130	
Hexachloroethane	ug/L	50	29.0	58	70-130	
Indeno(1,2,3-cd)pyrene	ug/L	50	48.3	97	70-130	
Isophorone	ug/L	50	33.1	66	70-130	
N-Nitroso-di-n-propylamine	ug/L	50	31.5	63	70-130	
N-Nitrosodimethylamine	ug/L	50	20.2	40	70-130	
N-Nitrosodiphenylamine	ug/L	50	40.0	80	70-130	
Naphthalene	ug/L	50	36.5	73	70-130	
Nitrobenzene	ug/L	50	35.0	70	70-130	
Pentachlorophenol	ug/L	100	79.0	79	70-130	
Phenanthrene	ug/L	50	43.6	87	70-130	
Phenol	ug/L	50	15.3	31	70-130	1g,3g
Pyrene	ug/L	50	42.0	84	70-130	
2,4,6-Tribromophenol (S)	%			86	27-110	
2-Fluorobiphenyl (S)	%			66	27-110	
2-Fluorophenol (S)	%			34	12-110	
Nitrobenzene-d5 (S)	%			64	21-110	
Phenol-d6 (S)	%			24	10-110	
Terphenyl-d14 (S)	%			60	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2459227 2459228

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92411780006 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2,4-Trichlorobenzene	ug/L	ND	4.7	47.2	2.5	35.2	53	75	70-130	174	30	
1,2-Dichlorobenzene	ug/L	ND	4.7	47.2	2.0	30.8	44	65	70-130	175	30	
1,3-Dichlorobenzene	ug/L	ND	4.7	47.2	2.0	29.7	44	63	70-130	174	30	
1,4-Dichlorobenzene	ug/L	ND	4.7	47.2	2.1	31.7	46	67	70-130	175	30	
1-Methylnaphthalene	ug/L	ND	4.7	47.2	3.2	39.4	68	83	70-130	170	30	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	4.7	47.2	1.8	27.1	40	57	70-130	174	30	
2,4,5-Trichlorophenol	ug/L	ND	4.7	47.2	3.3	37.1	72	79	70-130	167	30	
2,4,6-Trichlorophenol	ug/L	ND	4.7	47.2	3.5	39.5	75	84	70-130	168	30	
2,4-Dichlorophenol	ug/L	ND	4.7	47.2	2.9	34.8	61	74	70-130	170	30	
2,4-Dimethylphenol	ug/L	ND	4.7	47.2	2.4	29.3	53	62	70-130	169	3	
2,4-Dinitrophenol	ug/L	ND	23.3	236	16.9	187	73	79	70-130	167	30	
2,4-Dinitrotoluene	ug/L	ND	4.7	47.2	4.1	43.0	88	91	70-130	165	30	
2,6-Dinitrotoluene	ug/L	ND	4.7	47.2	4.1	44.2	88	94	70-130	166	30	
2-Chloronaphthalene	ug/L	ND	4.7	47.2	3.1	36.1	67	77	70-130	168	30	
2-Chlorophenol	ug/L	ND	4.7	47.2	1.8	26.8	39	57	70-130	174	30	
2-Methylnaphthalene	ug/L	ND	4.7	47.2	3.2	39.3	68	83	70-130	170	30	
2-Methylphenol(o-Cresol)	ug/L	ND	4.7	47.2	1.7	22.9	36	49	70-130	173	30	
2-Nitroaniline	ug/L	ND	9.3	94.3	6.6	70.0	71	74	70-130	166	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Parameter	Units	2459227		2459228		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92411780006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
2-Nitrophenol	ug/L	ND	4.7	47.2	2.7	36.0	59	76	70-130	172	30	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	4.7	47.2	1.6	19.7	34	42	70-130	171	30	
3,3'-Dichlorobenzidine	ug/L	ND	9.3	94.3	6.8	70.0	73	74	70-130	165	30	
3-Nitroaniline	ug/L	ND	9.3	94.3	6.5	65.7	70	70	70-130	164	30	
4,6-Dinitro-2-methylphenol	ug/L	ND	9.3	94.3	9.3	99.0	100	105	70-130	166	30	
4-Bromophenylphenyl ether	ug/L	ND	4.7	47.2	4.2	43.6	89	93	70-130	165	30	
4-Chloro-3-methylphenol	ug/L	ND	9.3	94.3	6.3	68.1	67	72	70-130	166	30	
4-Chloroaniline	ug/L	ND	9.3	94.3	5.2	57.2	56	61	70-130	166	30	
4-Chlorophenylphenyl ether	ug/L	ND	4.7	47.2	3.9	41.7	83	88	70-130	166	30	
4-Nitroaniline	ug/L	ND	9.3	94.3	7.1	73.1	76	77	70-130	165	30	
4-Nitrophenol	ug/L	ND	23.3	236	7.2	75.8	31	32	70-130	165	30	
Acenaphthene	ug/L	ND	4.7	47.2	3.6	40.2	77	85	70-130	167	30	
Acenaphthylene	ug/L	ND	4.7	47.2	3.8	42.1	81	89	70-130	167	30	
Aniline	ug/L	ND	4.7	47.2	1.7	22.0	36	47	70-130	172	30	
Anthracene	ug/L	ND	4.7	47.2	4.2	43.1	89	91	70-130	165	30	
Benzo(a)anthracene	ug/L	ND	4.7	47.2	4.2	43.9	91	93	70-130	165	30	
Benzo(a)pyrene	ug/L	ND	4.7	47.2	4.5	46.0	96	98	70-130	164	30	
Benzo(b)fluoranthene	ug/L	ND	4.7	47.2	4.4	44.5	94	94	70-130	164	30	
Benzo(g,h,i)perylene	ug/L	ND	4.7	47.2	4.7	47.2	102	100	70-130	164	30	
Benzo(k)fluoranthene	ug/L	ND	4.7	47.2	4.4	44.2	95	94	70-130	164	30	
Benzoic Acid	ug/L	ND	23.3	236	2.4J	34.1J	10	14	70-130		0	
Benzyl alcohol	ug/L	ND	9.3	94.3	3.9	51.2	41	54	70-130	172	30	
bis(2-Chloroethoxy)methane	ug/L	ND	4.7	47.2	2.7	34.6	58	73	70-130	171	30	
bis(2-Chloroethyl) ether	ug/L	ND	4.7	47.2	2.1	31.4	45	67	70-130	175	30	
bis(2-Ethylhexyl)phthalate	ug/L	ND	4.7	47.2	3.8	40.3	83	85	70-130	165	30	
Butylbenzylphthalate	ug/L	ND	4.7	47.2	3.9	40.3	83	85	70-130	165	30	
Chrysene	ug/L	ND	4.7	47.2	4.2	43.2	90	92	70-130	165	30	
Di-n-butylphthalate	ug/L	ND	4.7	47.2	4.0	41.5	87	88	70-130	165	30	
Di-n-octylphthalate	ug/L	ND	4.7	47.2	4.2	42.8	91	91	70-130	164	30	
Dibenz(a,h)anthracene	ug/L	ND	4.7	47.2	4.7	47.7	100	101	70-130	164	30	
Dibenzofuran	ug/L	ND	4.7	47.2	3.6	39.4	78	84	70-130	166	30	
Diethylphthalate	ug/L	ND	4.7	47.2	3.9	42.0	84	89	70-130	166	30	
Dimethylphthalate	ug/L	ND	4.7	47.2	3.8	40.1	82	85	70-130	165	30	
Fluoranthene	ug/L	ND	4.7	47.2	4.7	47.9	100	102	70-130	164	30	
Fluorene	ug/L	ND	4.7	47.2	4.0	43.3	86	92	70-130	166	30	
Hexachloro-1,3-butadiene	ug/L	ND	4.7	47.2	2.5	36.0	53	76	70-130	174	30	
Hexachlorobenzene	ug/L	ND	4.7	47.2	4.3	45.3	93	96	70-130	165	30	
Hexachlorocyclopentadiene	ug/L	ND	4.7	47.2	2.6	35.7	55	76	70-130	173	30	
Hexachloroethane	ug/L	ND	4.7	47.2	1.9	30.6	41	65	70-130	176	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	4.7	47.2	4.8	46.9	103	99	70-130	163	30	
Isophorone	ug/L	ND	4.7	47.2	2.9	33.0	62	70	70-130	168	30	
N-Nitroso-di-n-propylamine	ug/L	ND	4.7	47.2	2.6	32.1	55	68	70-130	170	30	
N-Nitrosodimethylamine	ug/L	ND	4.7	47.2	1.5	20.5	31	44	70-130	174	30	
N-Nitrosodiphenylamine	ug/L	ND	4.7	47.2	3.8	39.2	83	83	70-130	164	30	
Naphthalene	ug/L	ND	4.7	47.2	2.7	37.1	58	79	70-130	173	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Parameter	Units	92411780006		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec								
Nitrobenzene	ug/L	ND	4.7	4.7	47.2	2.6	34.3	55	73	70-130	172	30					
Pentachlorophenol	ug/L	ND	9.3	9.3	94.3	7.8	79.7	83	85	70-130	164	30					
Phenanthrene	ug/L	ND	4.7	4.7	47.2	4.3	43.9	92	93	70-130	165	30					
Phenol	ug/L	ND	4.7	4.7	47.2	0.96	13.4	21	28	70-130	173	30	2g				
Pyrene	ug/L	ND	4.7	4.7	47.2	4.1	42.4	89	90	70-130	164	30					
2,4,6-Tribromophenol (S)	%							93	96	27-110							
2-Fluorobiphenyl (S)	%							63	72	27-110							
2-Fluorophenol (S)	%							22	32	12-110							
Nitrobenzene-d5 (S)	%							51	68	21-110							
Phenol-d6 (S)	%							16	22	10-110							
Terphenyl-d14 (S)	%							70	67	31-107							

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g Comment applies to all compounds outside control limits.

2g Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Footnote applies to all recoveries exceeding QC limits.

3g Recovery did not meet 70-130% South Carolina required limits. Recovery meets method required in-house generated control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Bramlette MGP J18120520

Pace Project No.: 92411780

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92411780001	SW-7	EPA 3510C	449049	EPA 8270D	449378
92411780002	SW-8	EPA 3510C	449049	EPA 8270D	449378
92411780003	SW-9	EPA 3510C	449049	EPA 8270D	449378
92411780004	SW-10	EPA 3510C	449049	EPA 8270D	449378
92411780005	SW-11	EPA 3510C	449049	EPA 8270D	449378
92411780006	SW-12 MS/MSD	EPA 3510C	449049	EPA 8270D	449378
92411780007	SW-DUP1	EPA 3510C	449049	EPA 8270D	449378
92411780008	FB-01	EPA 3510C	449049	EPA 8270D	449378
92411780009	EQB-01	EPA 3510C	449049	EPA 8270D	449378
92411780001	SW-7	EPA 8260B	449771		
92411780002	SW-8	EPA 8260B	449771		
92411780003	SW-9	EPA 8260B	449771		
92411780004	SW-10	EPA 8260B	449771		
92411780005	SW-11	EPA 8260B	449771		
92411780006	SW-12 MS/MSD	EPA 8260B	449771		
92411780007	SW-DUP1	EPA 8260B	449771		
92411780008	FB-01	EPA 8260B	449771		
92411780009	EQB-01	EPA 8260B	449771		
92411780010	TRIP BLANK	EPA 8260B	449771		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.06

Document Revised: February 7, 2018
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

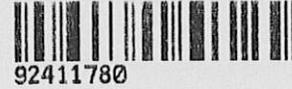
Sample Condition
Upon Receipt

Client Name:

Synterra

Project #:

WO#: 92411780



92411780

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Date/Initials Person Examining Contents: 1/20 AR

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?
 Yes No N/A

Thermometer: IR Gun ID: 93-T046 Type of Ice: Wet Blue None

Cooler Temp (°C): 5.2/4.8/5.5 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 5.2/4.8/5.5

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (~~Yes~~ N/A, water sample) AR 1/20

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No AR 1/20

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project :

WO# : 92411780
 PM: KLH1 Due Date: 12/28/18
 CLIENT: 92--Duke Ener

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	25	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	25	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	25	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	25	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	25	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	25	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	25	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	25	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	25	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	25	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	25	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	25	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	/	/	/

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

January 08, 2019

Program Manager
Duke Energy
13339 Hagers Ferry Road
Bldg. 7405 MG30A2
Huntersville, NC 28078

RE: Project: Former Bramlette MGP J18120519
Pace Project No.: 92411773

Dear Program Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring
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1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Program Manager, Duke Energy
Mike Mastbaum
Todd Plating, Synterra
Rick Powell
B. Russo
Heather Smith



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92411773001	SW-7-SED	Solid	12/19/18 14:30	12/20/18 11:15
92411773002	SW-8-SED	Solid	12/19/18 14:00	12/20/18 11:15
92411773003	SW-9-SED	Solid	12/19/18 13:25	12/20/18 11:15
92411773004	SW-10-SED	Solid	12/19/18 12:50	12/20/18 11:15
92411773005	SW-11-SED	Solid	12/19/18 11:45	12/20/18 11:15
92411773006	SW-DUP1-SED	Solid	12/19/18 09:00	12/20/18 11:15
92411773007	SW-12 MS/MSD-SED	Solid	12/19/18 10:30	12/20/18 11:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92411773001	SW-7-SED	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	DLK	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92411773002	SW-8-SED	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	DLK	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92411773003	SW-9-SED	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	DLK	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92411773004	SW-10-SED	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	DLK	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92411773005	SW-11-SED	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	DLK	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92411773006	SW-DUP1-SED	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	DLK	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92411773007	SW-12 MS/MSD-SED	EPA 8270D	BPJ	74	PASI-C
		EPA 8260B	DLK	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Former Bramlette MGP J18120519
Pace Project No.: 92411773

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92411773001	SW-7-SED					
EPA 8270D	Fluoranthene	106J	ug/kg	451	12/24/18 10:36	
EPA 8270D	Pyrene	90.0J	ug/kg	451	12/24/18 10:36	
ASTM D2974-87	Percent Moisture	26.9	%	0.10	12/21/18 16:51	
92411773002	SW-8-SED					
ASTM D2974-87	Percent Moisture	21.4	%	0.10	12/21/18 16:51	
92411773003	SW-9-SED					
ASTM D2974-87	Percent Moisture	20.7	%	0.10	12/21/18 16:51	
92411773004	SW-10-SED					
ASTM D2974-87	Percent Moisture	20.6	%	0.10	12/21/18 16:51	
92411773005	SW-11-SED					
ASTM D2974-87	Percent Moisture	26.7	%	0.10	12/21/18 16:51	
92411773006	SW-DUP1-SED					
EPA 8270D	Benzo(a)anthracene	145J	ug/kg	419	12/24/18 12:55	
EPA 8270D	Benzo(a)pyrene	162J	ug/kg	419	12/24/18 12:55	
EPA 8270D	Benzo(b)fluoranthene	213J	ug/kg	419	12/24/18 12:55	
EPA 8270D	Benzo(g,h,i)perylene	124J	ug/kg	419	12/24/18 12:55	
EPA 8270D	Benzo(k)fluoranthene	92.0J	ug/kg	419	12/24/18 12:55	
EPA 8270D	Chrysene	141J	ug/kg	419	12/24/18 12:55	
EPA 8270D	Fluoranthene	230J	ug/kg	419	12/24/18 12:55	
EPA 8270D	Indeno(1,2,3-cd)pyrene	104J	ug/kg	419	12/24/18 12:55	
EPA 8270D	Pyrene	197J	ug/kg	419	12/24/18 12:55	
ASTM D2974-87	Percent Moisture	20.1	%	0.10	12/21/18 16:51	
92411773007	SW-12 MS/MSD-SED					
EPA 8270D	Acenaphthylene	106J	ug/kg	411	12/26/18 13:19	
EPA 8270D	Anthracene	167J	ug/kg	411	12/26/18 13:19	
EPA 8270D	Benzo(a)anthracene	503	ug/kg	411	12/26/18 13:19	
EPA 8270D	Benzo(a)pyrene	435	ug/kg	411	12/26/18 13:19	
EPA 8270D	Benzo(b)fluoranthene	562	ug/kg	411	12/26/18 13:19	
EPA 8270D	Benzo(g,h,i)perylene	183J	ug/kg	411	12/26/18 13:19	
EPA 8270D	Benzo(k)fluoranthene	236J	ug/kg	411	12/26/18 13:19	
EPA 8270D	Chrysene	490	ug/kg	411	12/26/18 13:19	
EPA 8270D	Fluoranthene	822	ug/kg	411	12/26/18 13:19	
EPA 8270D	Indeno(1,2,3-cd)pyrene	186J	ug/kg	411	12/26/18 13:19	
EPA 8270D	Phenanthrene	217J	ug/kg	411	12/26/18 13:19	
EPA 8270D	Pyrene	791	ug/kg	411	12/26/18 13:19	
ASTM D2974-87	Percent Moisture	20.3	%	0.10	12/21/18 16:52	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Method: EPA 8270D

Description: 8270 MSSV Microwave SC

Client: Duke Energy

Date: January 08, 2019

General Information:

7 samples were analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 449206

1g: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Footnote applies to all recoveries exceeding QC limits.

- MS (Lab ID: 2460020)
 - Phenol
- MSD (Lab ID: 2460021)
 - Phenol

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Method: EPA 8270D

Description: 8270 MSSV Microwave SC

Client: Duke Energy

Date: January 08, 2019

Analyte Comments:

QC Batch: 449206

2g: Recovery did not meet 70-130% South Carolina required limits. Recovery meets method required in-house generated control limits.

Footnote applies to all recoveries less than 70%.

- LCS (Lab ID: 2460019)
- Phenol

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Method: EPA 8260B

Description: 8260/5035A SC Volatile Org

Client: Duke Energy

Date: January 08, 2019

General Information:

7 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 449048

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2459220)
- Tetrachloroethene

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 449048

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92411773007

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2459221)
- Tetrachloroethene
- MSD (Lab ID: 2459222)
- Tetrachloroethene

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PROJECT NARRATIVE

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Method: EPA 8260B

Description: 8260/5035A SC Volatile Org

Client: Duke Energy

Date: January 08, 2019

QC Batch: 449048

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92411773007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2459221)
 - 1,2,3-Trichlorobenzene
 - 1,2,4-Trichlorobenzene
 - 1,4-Dichlorobenzene
 - 2-Hexanone
 - Bromoform
 - Hexachloro-1,3-butadiene
 - Naphthalene
 - Styrene
 - Vinyl acetate
 - n-Butylbenzene
 - o-Xylene
 - p-Isopropyltoluene

- MSD (Lab ID: 2459222)
 - 1,2,3-Trichlorobenzene
 - 2-Hexanone
 - Naphthalene
 - p-Isopropyltoluene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2459222)
 - 1,2,3-Trichlorobenzene
 - 1,2,4-Trichlorobenzene
 - Hexachloro-1,3-butadiene
 - Styrene

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: **SW-7-SED** Lab ID: **92411773001** Collected: 12/19/18 14:30 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	451	104	1	12/21/18 19:38	12/24/18 10:36	83-32-9	
Acenaphthylene	ND	ug/kg	451	107	1	12/21/18 19:38	12/24/18 10:36	208-96-8	
Aniline	ND	ug/kg	451	122	1	12/21/18 19:38	12/24/18 10:36	62-53-3	
Anthracene	ND	ug/kg	451	101	1	12/21/18 19:38	12/24/18 10:36	120-12-7	
Benzo(a)anthracene	ND	ug/kg	451	83.4	1	12/21/18 19:38	12/24/18 10:36	56-55-3	
Benzo(a)pyrene	ND	ug/kg	451	86.2	1	12/21/18 19:38	12/24/18 10:36	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	451	78.0	1	12/21/18 19:38	12/24/18 10:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	451	115	1	12/21/18 19:38	12/24/18 10:36	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	451	88.9	1	12/21/18 19:38	12/24/18 10:36	207-08-9	
Benzoic Acid	ND	ug/kg	2260	82.1	1	12/21/18 19:38	12/24/18 10:36	65-85-0	
Benzyl alcohol	ND	ug/kg	903	90.3	1	12/21/18 19:38	12/24/18 10:36	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	451	82.1	1	12/21/18 19:38	12/24/18 10:36	101-55-3	
Butylbenzylphthalate	ND	ug/kg	451	95.8	1	12/21/18 19:38	12/24/18 10:36	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	903	93.0	1	12/21/18 19:38	12/24/18 10:36	59-50-7	
4-Chloroaniline	ND	ug/kg	2260	126	1	12/21/18 19:38	12/24/18 10:36	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	451	105	1	12/21/18 19:38	12/24/18 10:36	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	451	115	1	12/21/18 19:38	12/24/18 10:36	111-44-4	
2-Chloronaphthalene	ND	ug/kg	451	88.9	1	12/21/18 19:38	12/24/18 10:36	91-58-7	
2-Chlorophenol	ND	ug/kg	451	123	1	12/21/18 19:38	12/24/18 10:36	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	451	93.0	1	12/21/18 19:38	12/24/18 10:36	7005-72-3	
Chrysene	ND	ug/kg	451	60.2	1	12/21/18 19:38	12/24/18 10:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	451	95.8	1	12/21/18 19:38	12/24/18 10:36	53-70-3	
Dibenzofuran	ND	ug/kg	451	73.9	1	12/21/18 19:38	12/24/18 10:36	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	451	120	1	12/21/18 19:38	12/24/18 10:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	451	103	1	12/21/18 19:38	12/24/18 10:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	451	127	1	12/21/18 19:38	12/24/18 10:36	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2260	98.5	1	12/21/18 19:38	12/24/18 10:36	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	451	98.5	1	12/21/18 19:38	12/24/18 10:36	120-83-2	
Diethylphthalate	ND	ug/kg	451	69.8	1	12/21/18 19:38	12/24/18 10:36	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	451	178	1	12/21/18 19:38	12/24/18 10:36	105-67-9	
Dimethylphthalate	ND	ug/kg	451	91.7	1	12/21/18 19:38	12/24/18 10:36	131-11-3	
Di-n-butylphthalate	ND	ug/kg	451	73.9	1	12/21/18 19:38	12/24/18 10:36	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	903	90.3	1	12/21/18 19:38	12/24/18 10:36	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2260	73.9	1	12/21/18 19:38	12/24/18 10:36	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	451	84.8	1	12/21/18 19:38	12/24/18 10:36	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	451	94.4	1	12/21/18 19:38	12/24/18 10:36	606-20-2	
Di-n-octylphthalate	ND	ug/kg	451	94.4	1	12/21/18 19:38	12/24/18 10:36	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	451	123	1	12/21/18 19:38	12/24/18 10:36	117-81-7	
Fluoranthene	106J	ug/kg	451	65.7	1	12/21/18 19:38	12/24/18 10:36	206-44-0	
Fluorene	ND	ug/kg	451	93.0	1	12/21/18 19:38	12/24/18 10:36	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	451	78.0	1	12/21/18 19:38	12/24/18 10:36	87-68-3	
Hexachlorobenzene	ND	ug/kg	451	57.5	1	12/21/18 19:38	12/24/18 10:36	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	451	83.4	1	12/21/18 19:38	12/24/18 10:36	77-47-4	
Hexachloroethane	ND	ug/kg	451	119	1	12/21/18 19:38	12/24/18 10:36	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	451	93.0	1	12/21/18 19:38	12/24/18 10:36	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-7-SED **Lab ID: 92411773001** Collected: 12/19/18 14:30 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Isophorone	ND	ug/kg	451	101	1	12/21/18 19:38	12/24/18 10:36	78-59-1	
1-Methylnaphthalene	ND	ug/kg	451	118	1	12/21/18 19:38	12/24/18 10:36	90-12-0	
2-Methylnaphthalene	ND	ug/kg	451	97.1	1	12/21/18 19:38	12/24/18 10:36	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	451	137	1	12/21/18 19:38	12/24/18 10:36	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	451	178	1	12/21/18 19:38	12/24/18 10:36	15831-10-4	
Naphthalene	ND	ug/kg	451	111	1	12/21/18 19:38	12/24/18 10:36	91-20-3	
2-Nitroaniline	ND	ug/kg	2260	140	1	12/21/18 19:38	12/24/18 10:36	88-74-4	
3-Nitroaniline	ND	ug/kg	2260	123	1	12/21/18 19:38	12/24/18 10:36	99-09-2	
4-Nitroaniline	ND	ug/kg	903	127	1	12/21/18 19:38	12/24/18 10:36	100-01-6	
Nitrobenzene	ND	ug/kg	451	123	1	12/21/18 19:38	12/24/18 10:36	98-95-3	
2-Nitrophenol	ND	ug/kg	451	109	1	12/21/18 19:38	12/24/18 10:36	88-75-5	
4-Nitrophenol	ND	ug/kg	2260	80.7	1	12/21/18 19:38	12/24/18 10:36	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	451	146	1	12/21/18 19:38	12/24/18 10:36	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	451	86.2	1	12/21/18 19:38	12/24/18 10:36	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	451	134	1	12/21/18 19:38	12/24/18 10:36	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	451	120	1	12/21/18 19:38	12/24/18 10:36	108-60-1	
Pentachlorophenol	ND	ug/kg	2260	82.1	1	12/21/18 19:38	12/24/18 10:36	87-86-5	
Phenanthrene	ND	ug/kg	451	75.2	1	12/21/18 19:38	12/24/18 10:36	85-01-8	
Phenol	ND	ug/kg	451	135	1	12/21/18 19:38	12/24/18 10:36	108-95-2	
Pyrene	90.0J	ug/kg	451	76.6	1	12/21/18 19:38	12/24/18 10:36	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	451	87.6	1	12/21/18 19:38	12/24/18 10:36	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	451	140	1	12/21/18 19:38	12/24/18 10:36	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	451	99.9	1	12/21/18 19:38	12/24/18 10:36	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	52	%	23-110		1	12/21/18 19:38	12/24/18 10:36	4165-60-0	
2-Fluorobiphenyl (S)	37	%	30-110		1	12/21/18 19:38	12/24/18 10:36	321-60-8	
Terphenyl-d14 (S)	30	%	28-110		1	12/21/18 19:38	12/24/18 10:36	1718-51-0	
Phenol-d6 (S)	49	%	22-110		1	12/21/18 19:38	12/24/18 10:36	13127-88-3	
2-Fluorophenol (S)	51	%	13-110		1	12/21/18 19:38	12/24/18 10:36	367-12-4	
2,4,6-Tribromophenol (S)	53	%	27-110		1	12/21/18 19:38	12/24/18 10:36	118-79-6	
8260/5035A SC Volatile Org									
Analytical Method: EPA 8260B Preparation Method: EPA 5035A									
Acetone	ND	ug/kg	155	15.5	1	12/21/18 09:58	12/21/18 12:50	67-64-1	
Benzene	ND	ug/kg	7.8	2.5	1	12/21/18 09:58	12/21/18 12:50	71-43-2	
Bromobenzene	ND	ug/kg	7.8	3.1	1	12/21/18 09:58	12/21/18 12:50	108-86-1	
Bromochloromethane	ND	ug/kg	7.8	2.6	1	12/21/18 09:58	12/21/18 12:50	74-97-5	
Bromodichloromethane	ND	ug/kg	7.8	3.0	1	12/21/18 09:58	12/21/18 12:50	75-27-4	
Bromoform	ND	ug/kg	7.8	3.6	1	12/21/18 09:58	12/21/18 12:50	75-25-2	
Bromomethane	ND	ug/kg	15.5	3.9	1	12/21/18 09:58	12/21/18 12:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	155	4.5	1	12/21/18 09:58	12/21/18 12:50	78-93-3	
n-Butylbenzene	ND	ug/kg	7.8	2.8	1	12/21/18 09:58	12/21/18 12:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.8	2.5	1	12/21/18 09:58	12/21/18 12:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.8	3.1	1	12/21/18 09:58	12/21/18 12:50	98-06-6	
Carbon tetrachloride	ND	ug/kg	7.8	4.0	1	12/21/18 09:58	12/21/18 12:50	56-23-5	
Chlorobenzene	ND	ug/kg	7.8	3.0	1	12/21/18 09:58	12/21/18 12:50	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Sample Project No.: 92411773

Sample: SW-7-SED **Lab ID: 92411773001** Collected: 12/19/18 14:30 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A SC Volatile Org		Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Chloroethane	ND	ug/kg	15.5	3.7	1	12/21/18 09:58	12/21/18 12:50	75-00-3	
Chloroform	ND	ug/kg	7.8	2.5	1	12/21/18 09:58	12/21/18 12:50	67-66-3	
Chloromethane	ND	ug/kg	15.5	3.7	1	12/21/18 09:58	12/21/18 12:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.8	2.6	1	12/21/18 09:58	12/21/18 12:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.8	2.8	1	12/21/18 09:58	12/21/18 12:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.8	5.6	1	12/21/18 09:58	12/21/18 12:50	96-12-8	
Dibromochloromethane	ND	ug/kg	7.8	2.8	1	12/21/18 09:58	12/21/18 12:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.8	2.8	1	12/21/18 09:58	12/21/18 12:50	106-93-4	
Dibromomethane	ND	ug/kg	7.8	3.9	1	12/21/18 09:58	12/21/18 12:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.8	3.0	1	12/21/18 09:58	12/21/18 12:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.8	3.1	1	12/21/18 09:58	12/21/18 12:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.8	2.6	1	12/21/18 09:58	12/21/18 12:50	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	15.5	5.6	1	12/21/18 09:58	12/21/18 12:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.8	2.3	1	12/21/18 09:58	12/21/18 12:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.8	3.4	1	12/21/18 09:58	12/21/18 12:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.8	2.8	1	12/21/18 09:58	12/21/18 12:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.8	2.2	1	12/21/18 09:58	12/21/18 12:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.8	3.0	1	12/21/18 09:58	12/21/18 12:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.8	2.6	1	12/21/18 09:58	12/21/18 12:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.8	3.0	1	12/21/18 09:58	12/21/18 12:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.8	2.6	1	12/21/18 09:58	12/21/18 12:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.8	2.3	1	12/21/18 09:58	12/21/18 12:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.8	2.8	1	12/21/18 09:58	12/21/18 12:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.8	2.3	1	12/21/18 09:58	12/21/18 12:50	10061-02-6	
Diisopropyl ether	ND	ug/kg	7.8	2.6	1	12/21/18 09:58	12/21/18 12:50	108-20-3	
Ethylbenzene	ND	ug/kg	7.8	2.8	1	12/21/18 09:58	12/21/18 12:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	7.8	3.1	1	12/21/18 09:58	12/21/18 12:50	87-68-3	
2-Hexanone	ND	ug/kg	77.7	6.1	1	12/21/18 09:58	12/21/18 12:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.8	3.0	1	12/21/18 09:58	12/21/18 12:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.8	2.6	1	12/21/18 09:58	12/21/18 12:50	99-87-6	
Methylene Chloride	ND	ug/kg	31.1	4.7	1	12/21/18 09:58	12/21/18 12:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	77.7	5.8	1	12/21/18 09:58	12/21/18 12:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	7.8	2.3	1	12/21/18 09:58	12/21/18 12:50	1634-04-4	
Naphthalene	ND	ug/kg	7.8	1.9	1	12/21/18 09:58	12/21/18 12:50	91-20-3	
n-Propylbenzene	ND	ug/kg	7.8	2.6	1	12/21/18 09:58	12/21/18 12:50	103-65-1	
Styrene	ND	ug/kg	7.8	2.8	1	12/21/18 09:58	12/21/18 12:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.8	3.3	1	12/21/18 09:58	12/21/18 12:50	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	7.8	3.0	1	12/21/18 09:58	12/21/18 12:50	79-34-5	
Tetrachloroethene	ND	ug/kg	7.8	2.6	1	12/21/18 09:58	12/21/18 12:50	127-18-4	L1
Toluene	ND	ug/kg	7.8	2.8	1	12/21/18 09:58	12/21/18 12:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.8	3.4	1	12/21/18 09:58	12/21/18 12:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.8	2.5	1	12/21/18 09:58	12/21/18 12:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.8	2.8	1	12/21/18 09:58	12/21/18 12:50	71-55-6	
1,1,1,2-Trichloroethane	ND	ug/kg	7.8	3.3	1	12/21/18 09:58	12/21/18 12:50	79-00-5	
Trichloroethene	ND	ug/kg	7.8	3.3	1	12/21/18 09:58	12/21/18 12:50	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-7-SED **Lab ID: 92411773001** Collected: 12/19/18 14:30 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A SC Volatile Org		Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Trichlorofluoromethane	ND	ug/kg	7.8	3.4	1	12/21/18 09:58	12/21/18 12:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.8	2.5	1	12/21/18 09:58	12/21/18 12:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.8	3.1	1	12/21/18 09:58	12/21/18 12:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.8	2.8	1	12/21/18 09:58	12/21/18 12:50	108-67-8	
Vinyl acetate	ND	ug/kg	77.7	13.7	1	12/21/18 09:58	12/21/18 12:50	108-05-4	
Vinyl chloride	ND	ug/kg	15.5	2.8	1	12/21/18 09:58	12/21/18 12:50	75-01-4	
Xylene (Total)	ND	ug/kg	15.5	5.6	1	12/21/18 09:58	12/21/18 12:50	1330-20-7	
m&p-Xylene	ND	ug/kg	15.5	5.6	1	12/21/18 09:58	12/21/18 12:50	179601-23-1	
o-Xylene	ND	ug/kg	7.8	3.0	1	12/21/18 09:58	12/21/18 12:50	95-47-6	
Surrogates									
Toluene-d8 (S)	108	%	70-130		1	12/21/18 09:58	12/21/18 12:50	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1	12/21/18 09:58	12/21/18 12:50	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1	12/21/18 09:58	12/21/18 12:50	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	26.9	%	0.10	0.10	1		12/21/18 16:51		

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-8-SED **Lab ID: 92411773002** Collected: 12/19/18 14:00 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	420	96.7	1	12/21/18 19:38	12/24/18 11:04	83-32-9	
Acenaphthylene	ND	ug/kg	420	99.3	1	12/21/18 19:38	12/24/18 11:04	208-96-8	
Aniline	ND	ug/kg	420	113	1	12/21/18 19:38	12/24/18 11:04	62-53-3	
Anthracene	ND	ug/kg	420	94.2	1	12/21/18 19:38	12/24/18 11:04	120-12-7	
Benzo(a)anthracene	ND	ug/kg	420	77.6	1	12/21/18 19:38	12/24/18 11:04	56-55-3	
Benzo(a)pyrene	ND	ug/kg	420	80.2	1	12/21/18 19:38	12/24/18 11:04	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	420	72.5	1	12/21/18 19:38	12/24/18 11:04	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	420	107	1	12/21/18 19:38	12/24/18 11:04	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	420	82.7	1	12/21/18 19:38	12/24/18 11:04	207-08-9	
Benzoic Acid	ND	ug/kg	2100	76.4	1	12/21/18 19:38	12/24/18 11:04	65-85-0	
Benzyl alcohol	ND	ug/kg	840	84.0	1	12/21/18 19:38	12/24/18 11:04	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	420	76.4	1	12/21/18 19:38	12/24/18 11:04	101-55-3	
Butylbenzylphthalate	ND	ug/kg	420	89.1	1	12/21/18 19:38	12/24/18 11:04	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	840	86.5	1	12/21/18 19:38	12/24/18 11:04	59-50-7	
4-Chloroaniline	ND	ug/kg	2100	117	1	12/21/18 19:38	12/24/18 11:04	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	420	98.0	1	12/21/18 19:38	12/24/18 11:04	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	420	107	1	12/21/18 19:38	12/24/18 11:04	111-44-4	
2-Chloronaphthalene	ND	ug/kg	420	82.7	1	12/21/18 19:38	12/24/18 11:04	91-58-7	
2-Chlorophenol	ND	ug/kg	420	115	1	12/21/18 19:38	12/24/18 11:04	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	420	86.5	1	12/21/18 19:38	12/24/18 11:04	7005-72-3	
Chrysene	ND	ug/kg	420	56.0	1	12/21/18 19:38	12/24/18 11:04	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	420	89.1	1	12/21/18 19:38	12/24/18 11:04	53-70-3	
Dibenzofuran	ND	ug/kg	420	68.7	1	12/21/18 19:38	12/24/18 11:04	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	420	112	1	12/21/18 19:38	12/24/18 11:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	420	95.4	1	12/21/18 19:38	12/24/18 11:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	420	118	1	12/21/18 19:38	12/24/18 11:04	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2100	91.6	1	12/21/18 19:38	12/24/18 11:04	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	420	91.6	1	12/21/18 19:38	12/24/18 11:04	120-83-2	
Diethylphthalate	ND	ug/kg	420	64.9	1	12/21/18 19:38	12/24/18 11:04	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	420	165	1	12/21/18 19:38	12/24/18 11:04	105-67-9	
Dimethylphthalate	ND	ug/kg	420	85.3	1	12/21/18 19:38	12/24/18 11:04	131-11-3	
Di-n-butylphthalate	ND	ug/kg	420	68.7	1	12/21/18 19:38	12/24/18 11:04	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	840	84.0	1	12/21/18 19:38	12/24/18 11:04	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2100	68.7	1	12/21/18 19:38	12/24/18 11:04	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	420	78.9	1	12/21/18 19:38	12/24/18 11:04	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	420	87.8	1	12/21/18 19:38	12/24/18 11:04	606-20-2	
Di-n-octylphthalate	ND	ug/kg	420	87.8	1	12/21/18 19:38	12/24/18 11:04	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	420	115	1	12/21/18 19:38	12/24/18 11:04	117-81-7	
Fluoranthene	ND	ug/kg	420	61.1	1	12/21/18 19:38	12/24/18 11:04	206-44-0	
Fluorene	ND	ug/kg	420	86.5	1	12/21/18 19:38	12/24/18 11:04	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	420	72.5	1	12/21/18 19:38	12/24/18 11:04	87-68-3	
Hexachlorobenzene	ND	ug/kg	420	53.4	1	12/21/18 19:38	12/24/18 11:04	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	420	77.6	1	12/21/18 19:38	12/24/18 11:04	77-47-4	
Hexachloroethane	ND	ug/kg	420	111	1	12/21/18 19:38	12/24/18 11:04	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	420	86.5	1	12/21/18 19:38	12/24/18 11:04	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-8-SED **Lab ID: 92411773002** Collected: 12/19/18 14:00 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Isophorone	ND	ug/kg	420	94.2	1	12/21/18 19:38	12/24/18 11:04	78-59-1	
1-Methylnaphthalene	ND	ug/kg	420	109	1	12/21/18 19:38	12/24/18 11:04	90-12-0	
2-Methylnaphthalene	ND	ug/kg	420	90.4	1	12/21/18 19:38	12/24/18 11:04	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	420	127	1	12/21/18 19:38	12/24/18 11:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	420	165	1	12/21/18 19:38	12/24/18 11:04	15831-10-4	
Naphthalene	ND	ug/kg	420	103	1	12/21/18 19:38	12/24/18 11:04	91-20-3	
2-Nitroaniline	ND	ug/kg	2100	130	1	12/21/18 19:38	12/24/18 11:04	88-74-4	
3-Nitroaniline	ND	ug/kg	2100	115	1	12/21/18 19:38	12/24/18 11:04	99-09-2	
4-Nitroaniline	ND	ug/kg	840	118	1	12/21/18 19:38	12/24/18 11:04	100-01-6	
Nitrobenzene	ND	ug/kg	420	115	1	12/21/18 19:38	12/24/18 11:04	98-95-3	
2-Nitrophenol	ND	ug/kg	420	102	1	12/21/18 19:38	12/24/18 11:04	88-75-5	
4-Nitrophenol	ND	ug/kg	2100	75.1	1	12/21/18 19:38	12/24/18 11:04	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	420	136	1	12/21/18 19:38	12/24/18 11:04	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	420	80.2	1	12/21/18 19:38	12/24/18 11:04	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	420	125	1	12/21/18 19:38	12/24/18 11:04	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	420	112	1	12/21/18 19:38	12/24/18 11:04	108-60-1	
Pentachlorophenol	ND	ug/kg	2100	76.4	1	12/21/18 19:38	12/24/18 11:04	87-86-5	
Phenanthrene	ND	ug/kg	420	70.0	1	12/21/18 19:38	12/24/18 11:04	85-01-8	
Phenol	ND	ug/kg	420	126	1	12/21/18 19:38	12/24/18 11:04	108-95-2	
Pyrene	ND	ug/kg	420	71.3	1	12/21/18 19:38	12/24/18 11:04	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	420	81.4	1	12/21/18 19:38	12/24/18 11:04	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	420	130	1	12/21/18 19:38	12/24/18 11:04	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	420	92.9	1	12/21/18 19:38	12/24/18 11:04	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	64	%	23-110		1	12/21/18 19:38	12/24/18 11:04	4165-60-0	
2-Fluorobiphenyl (S)	60	%	30-110		1	12/21/18 19:38	12/24/18 11:04	321-60-8	
Terphenyl-d14 (S)	53	%	28-110		1	12/21/18 19:38	12/24/18 11:04	1718-51-0	
Phenol-d6 (S)	57	%	22-110		1	12/21/18 19:38	12/24/18 11:04	13127-88-3	
2-Fluorophenol (S)	55	%	13-110		1	12/21/18 19:38	12/24/18 11:04	367-12-4	
2,4,6-Tribromophenol (S)	64	%	27-110		1	12/21/18 19:38	12/24/18 11:04	118-79-6	
8260/5035A SC Volatile Org									
Analytical Method: EPA 8260B Preparation Method: EPA 5035A									
Acetone	ND	ug/kg	97.6	9.8	1	12/21/18 09:58	12/21/18 13:10	67-64-1	
Benzene	ND	ug/kg	4.9	1.6	1	12/21/18 09:58	12/21/18 13:10	71-43-2	
Bromobenzene	ND	ug/kg	4.9	2.0	1	12/21/18 09:58	12/21/18 13:10	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1.7	1	12/21/18 09:58	12/21/18 13:10	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1.9	1	12/21/18 09:58	12/21/18 13:10	75-27-4	
Bromoform	ND	ug/kg	4.9	2.2	1	12/21/18 09:58	12/21/18 13:10	75-25-2	
Bromomethane	ND	ug/kg	9.8	2.4	1	12/21/18 09:58	12/21/18 13:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	97.6	2.8	1	12/21/18 09:58	12/21/18 13:10	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1.8	1	12/21/18 09:58	12/21/18 13:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1.6	1	12/21/18 09:58	12/21/18 13:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	2.0	1	12/21/18 09:58	12/21/18 13:10	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.9	2.5	1	12/21/18 09:58	12/21/18 13:10	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1.9	1	12/21/18 09:58	12/21/18 13:10	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Sample Project No.: 92411773

Sample: SW-8-SED **Lab ID: 92411773002** Collected: 12/19/18 14:00 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A SC Volatile Org		Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Chloroethane	ND	ug/kg	9.8	2.3	1	12/21/18 09:58	12/21/18 13:10	75-00-3	
Chloroform	ND	ug/kg	4.9	1.6	1	12/21/18 09:58	12/21/18 13:10	67-66-3	
Chloromethane	ND	ug/kg	9.8	2.3	1	12/21/18 09:58	12/21/18 13:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1.7	1	12/21/18 09:58	12/21/18 13:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1.8	1	12/21/18 09:58	12/21/18 13:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	3.5	1	12/21/18 09:58	12/21/18 13:10	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1.8	1	12/21/18 09:58	12/21/18 13:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1.8	1	12/21/18 09:58	12/21/18 13:10	106-93-4	
Dibromomethane	ND	ug/kg	4.9	2.4	1	12/21/18 09:58	12/21/18 13:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1.9	1	12/21/18 09:58	12/21/18 13:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	2.0	1	12/21/18 09:58	12/21/18 13:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1.7	1	12/21/18 09:58	12/21/18 13:10	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.8	3.5	1	12/21/18 09:58	12/21/18 13:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1.5	1	12/21/18 09:58	12/21/18 13:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	2.1	1	12/21/18 09:58	12/21/18 13:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1.8	1	12/21/18 09:58	12/21/18 13:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1.4	1	12/21/18 09:58	12/21/18 13:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1.9	1	12/21/18 09:58	12/21/18 13:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1.7	1	12/21/18 09:58	12/21/18 13:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1.9	1	12/21/18 09:58	12/21/18 13:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1.7	1	12/21/18 09:58	12/21/18 13:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1.5	1	12/21/18 09:58	12/21/18 13:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1.8	1	12/21/18 09:58	12/21/18 13:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1.5	1	12/21/18 09:58	12/21/18 13:10	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.9	1.7	1	12/21/18 09:58	12/21/18 13:10	108-20-3	
Ethylbenzene	ND	ug/kg	4.9	1.8	1	12/21/18 09:58	12/21/18 13:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	2.0	1	12/21/18 09:58	12/21/18 13:10	87-68-3	
2-Hexanone	ND	ug/kg	48.8	3.8	1	12/21/18 09:58	12/21/18 13:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1.9	1	12/21/18 09:58	12/21/18 13:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1.7	1	12/21/18 09:58	12/21/18 13:10	99-87-6	
Methylene Chloride	ND	ug/kg	19.5	2.9	1	12/21/18 09:58	12/21/18 13:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.8	3.6	1	12/21/18 09:58	12/21/18 13:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1.5	1	12/21/18 09:58	12/21/18 13:10	1634-04-4	
Naphthalene	ND	ug/kg	4.9	1.2	1	12/21/18 09:58	12/21/18 13:10	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1.7	1	12/21/18 09:58	12/21/18 13:10	103-65-1	
Styrene	ND	ug/kg	4.9	1.8	1	12/21/18 09:58	12/21/18 13:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	2.0	1	12/21/18 09:58	12/21/18 13:10	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1.9	1	12/21/18 09:58	12/21/18 13:10	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1.7	1	12/21/18 09:58	12/21/18 13:10	127-18-4	L1
Toluene	ND	ug/kg	4.9	1.8	1	12/21/18 09:58	12/21/18 13:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	2.1	1	12/21/18 09:58	12/21/18 13:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1.6	1	12/21/18 09:58	12/21/18 13:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1.8	1	12/21/18 09:58	12/21/18 13:10	71-55-6	
1,1,1,2-Trichloroethane	ND	ug/kg	4.9	2.0	1	12/21/18 09:58	12/21/18 13:10	79-00-5	
Trichloroethene	ND	ug/kg	4.9	2.0	1	12/21/18 09:58	12/21/18 13:10	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-8-SED **Lab ID: 92411773002** Collected: 12/19/18 14:00 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A SC Volatile Org		Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Trichlorofluoromethane	ND	ug/kg	4.9	2.1	1	12/21/18 09:58	12/21/18 13:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1.6	1	12/21/18 09:58	12/21/18 13:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	2.0	1	12/21/18 09:58	12/21/18 13:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1.8	1	12/21/18 09:58	12/21/18 13:10	108-67-8	
Vinyl acetate	ND	ug/kg	48.8	8.6	1	12/21/18 09:58	12/21/18 13:10	108-05-4	
Vinyl chloride	ND	ug/kg	9.8	1.8	1	12/21/18 09:58	12/21/18 13:10	75-01-4	
Xylene (Total)	ND	ug/kg	9.8	3.5	1	12/21/18 09:58	12/21/18 13:10	1330-20-7	
m&p-Xylene	ND	ug/kg	9.8	3.5	1	12/21/18 09:58	12/21/18 13:10	179601-23-1	
o-Xylene	ND	ug/kg	4.9	1.9	1	12/21/18 09:58	12/21/18 13:10	95-47-6	
Surrogates									
Toluene-d8 (S)	109	%	70-130		1	12/21/18 09:58	12/21/18 13:10	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1	12/21/18 09:58	12/21/18 13:10	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1	12/21/18 09:58	12/21/18 13:10	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	21.4	%	0.10	0.10	1		12/21/18 16:51		

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-9-SED **Lab ID: 92411773003** Collected: 12/19/18 13:25 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	423	97.5	1	12/21/18 19:38	12/24/18 11:32	83-32-9	
Acenaphthylene	ND	ug/kg	423	100	1	12/21/18 19:38	12/24/18 11:32	208-96-8	
Aniline	ND	ug/kg	423	114	1	12/21/18 19:38	12/24/18 11:32	62-53-3	
Anthracene	ND	ug/kg	423	94.9	1	12/21/18 19:38	12/24/18 11:32	120-12-7	
Benzo(a)anthracene	ND	ug/kg	423	78.3	1	12/21/18 19:38	12/24/18 11:32	56-55-3	
Benzo(a)pyrene	ND	ug/kg	423	80.8	1	12/21/18 19:38	12/24/18 11:32	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	423	73.1	1	12/21/18 19:38	12/24/18 11:32	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	423	108	1	12/21/18 19:38	12/24/18 11:32	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	423	83.4	1	12/21/18 19:38	12/24/18 11:32	207-08-9	
Benzoic Acid	ND	ug/kg	2120	77.0	1	12/21/18 19:38	12/24/18 11:32	65-85-0	
Benzyl alcohol	ND	ug/kg	847	84.7	1	12/21/18 19:38	12/24/18 11:32	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	423	77.0	1	12/21/18 19:38	12/24/18 11:32	101-55-3	
Butylbenzylphthalate	ND	ug/kg	423	89.8	1	12/21/18 19:38	12/24/18 11:32	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	847	87.2	1	12/21/18 19:38	12/24/18 11:32	59-50-7	
4-Chloroaniline	ND	ug/kg	2120	118	1	12/21/18 19:38	12/24/18 11:32	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	423	98.8	1	12/21/18 19:38	12/24/18 11:32	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	423	108	1	12/21/18 19:38	12/24/18 11:32	111-44-4	
2-Chloronaphthalene	ND	ug/kg	423	83.4	1	12/21/18 19:38	12/24/18 11:32	91-58-7	
2-Chlorophenol	ND	ug/kg	423	115	1	12/21/18 19:38	12/24/18 11:32	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	423	87.2	1	12/21/18 19:38	12/24/18 11:32	7005-72-3	
Chrysene	ND	ug/kg	423	56.5	1	12/21/18 19:38	12/24/18 11:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	423	89.8	1	12/21/18 19:38	12/24/18 11:32	53-70-3	
Dibenzofuran	ND	ug/kg	423	69.3	1	12/21/18 19:38	12/24/18 11:32	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	423	113	1	12/21/18 19:38	12/24/18 11:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	423	96.2	1	12/21/18 19:38	12/24/18 11:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	423	119	1	12/21/18 19:38	12/24/18 11:32	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2120	92.4	1	12/21/18 19:38	12/24/18 11:32	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	423	92.4	1	12/21/18 19:38	12/24/18 11:32	120-83-2	
Diethylphthalate	ND	ug/kg	423	65.4	1	12/21/18 19:38	12/24/18 11:32	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	423	167	1	12/21/18 19:38	12/24/18 11:32	105-67-9	
Dimethylphthalate	ND	ug/kg	423	86.0	1	12/21/18 19:38	12/24/18 11:32	131-11-3	
Di-n-butylphthalate	ND	ug/kg	423	69.3	1	12/21/18 19:38	12/24/18 11:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	847	84.7	1	12/21/18 19:38	12/24/18 11:32	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2120	69.3	1	12/21/18 19:38	12/24/18 11:32	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	423	79.6	1	12/21/18 19:38	12/24/18 11:32	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	423	88.5	1	12/21/18 19:38	12/24/18 11:32	606-20-2	
Di-n-octylphthalate	ND	ug/kg	423	88.5	1	12/21/18 19:38	12/24/18 11:32	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	423	115	1	12/21/18 19:38	12/24/18 11:32	117-81-7	
Fluoranthene	ND	ug/kg	423	61.6	1	12/21/18 19:38	12/24/18 11:32	206-44-0	
Fluorene	ND	ug/kg	423	87.2	1	12/21/18 19:38	12/24/18 11:32	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	423	73.1	1	12/21/18 19:38	12/24/18 11:32	87-68-3	
Hexachlorobenzene	ND	ug/kg	423	53.9	1	12/21/18 19:38	12/24/18 11:32	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	423	78.3	1	12/21/18 19:38	12/24/18 11:32	77-47-4	
Hexachloroethane	ND	ug/kg	423	112	1	12/21/18 19:38	12/24/18 11:32	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	423	87.2	1	12/21/18 19:38	12/24/18 11:32	193-39-5	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-9-SED **Lab ID: 92411773003** Collected: 12/19/18 13:25 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Isophorone	ND	ug/kg	423	94.9	1	12/21/18 19:38	12/24/18 11:32	78-59-1	
1-Methylnaphthalene	ND	ug/kg	423	110	1	12/21/18 19:38	12/24/18 11:32	90-12-0	
2-Methylnaphthalene	ND	ug/kg	423	91.1	1	12/21/18 19:38	12/24/18 11:32	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	423	128	1	12/21/18 19:38	12/24/18 11:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	423	167	1	12/21/18 19:38	12/24/18 11:32	15831-10-4	
Naphthalene	ND	ug/kg	423	104	1	12/21/18 19:38	12/24/18 11:32	91-20-3	
2-Nitroaniline	ND	ug/kg	2120	131	1	12/21/18 19:38	12/24/18 11:32	88-74-4	
3-Nitroaniline	ND	ug/kg	2120	115	1	12/21/18 19:38	12/24/18 11:32	99-09-2	
4-Nitroaniline	ND	ug/kg	847	119	1	12/21/18 19:38	12/24/18 11:32	100-01-6	
Nitrobenzene	ND	ug/kg	423	115	1	12/21/18 19:38	12/24/18 11:32	98-95-3	
2-Nitrophenol	ND	ug/kg	423	103	1	12/21/18 19:38	12/24/18 11:32	88-75-5	
4-Nitrophenol	ND	ug/kg	2120	75.7	1	12/21/18 19:38	12/24/18 11:32	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	423	137	1	12/21/18 19:38	12/24/18 11:32	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	423	80.8	1	12/21/18 19:38	12/24/18 11:32	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	423	126	1	12/21/18 19:38	12/24/18 11:32	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	423	113	1	12/21/18 19:38	12/24/18 11:32	108-60-1	
Pentachlorophenol	ND	ug/kg	2120	77.0	1	12/21/18 19:38	12/24/18 11:32	87-86-5	
Phenanthrene	ND	ug/kg	423	70.6	1	12/21/18 19:38	12/24/18 11:32	85-01-8	
Phenol	ND	ug/kg	423	127	1	12/21/18 19:38	12/24/18 11:32	108-95-2	
Pyrene	ND	ug/kg	423	71.9	1	12/21/18 19:38	12/24/18 11:32	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	423	82.1	1	12/21/18 19:38	12/24/18 11:32	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	423	131	1	12/21/18 19:38	12/24/18 11:32	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	423	93.7	1	12/21/18 19:38	12/24/18 11:32	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	63	%	23-110		1	12/21/18 19:38	12/24/18 11:32	4165-60-0	
2-Fluorobiphenyl (S)	59	%	30-110		1	12/21/18 19:38	12/24/18 11:32	321-60-8	
Terphenyl-d14 (S)	55	%	28-110		1	12/21/18 19:38	12/24/18 11:32	1718-51-0	
Phenol-d6 (S)	57	%	22-110		1	12/21/18 19:38	12/24/18 11:32	13127-88-3	
2-Fluorophenol (S)	55	%	13-110		1	12/21/18 19:38	12/24/18 11:32	367-12-4	
2,4,6-Tribromophenol (S)	60	%	27-110		1	12/21/18 19:38	12/24/18 11:32	118-79-6	
8260/5035A SC Volatile Org									
Analytical Method: EPA 8260B Preparation Method: EPA 5035A									
Acetone	ND	ug/kg	124	12.4	1	12/21/18 09:58	12/21/18 20:56	67-64-1	
Benzene	ND	ug/kg	6.2	2.0	1	12/21/18 09:58	12/21/18 20:56	71-43-2	
Bromobenzene	ND	ug/kg	6.2	2.5	1	12/21/18 09:58	12/21/18 20:56	108-86-1	
Bromochloromethane	ND	ug/kg	6.2	2.1	1	12/21/18 09:58	12/21/18 20:56	74-97-5	
Bromodichloromethane	ND	ug/kg	6.2	2.4	1	12/21/18 09:58	12/21/18 20:56	75-27-4	
Bromoform	ND	ug/kg	6.2	2.9	1	12/21/18 09:58	12/21/18 20:56	75-25-2	
Bromomethane	ND	ug/kg	12.4	3.1	1	12/21/18 09:58	12/21/18 20:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	124	3.6	1	12/21/18 09:58	12/21/18 20:56	78-93-3	
n-Butylbenzene	ND	ug/kg	6.2	2.2	1	12/21/18 09:58	12/21/18 20:56	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.2	2.0	1	12/21/18 09:58	12/21/18 20:56	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.2	2.5	1	12/21/18 09:58	12/21/18 20:56	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.2	3.2	1	12/21/18 09:58	12/21/18 20:56	56-23-5	
Chlorobenzene	ND	ug/kg	6.2	2.4	1	12/21/18 09:58	12/21/18 20:56	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Sample Project No.: 92411773

Sample: SW-9-SED **Lab ID: 92411773003** Collected: 12/19/18 13:25 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A SC Volatile Org		Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Chloroethane	ND	ug/kg	12.4	3.0	1	12/21/18 09:58	12/21/18 20:56	75-00-3	
Chloroform	ND	ug/kg	6.2	2.0	1	12/21/18 09:58	12/21/18 20:56	67-66-3	
Chloromethane	ND	ug/kg	12.4	3.0	1	12/21/18 09:58	12/21/18 20:56	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.2	2.1	1	12/21/18 09:58	12/21/18 20:56	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.2	2.2	1	12/21/18 09:58	12/21/18 20:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.2	4.5	1	12/21/18 09:58	12/21/18 20:56	96-12-8	
Dibromochloromethane	ND	ug/kg	6.2	2.2	1	12/21/18 09:58	12/21/18 20:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.2	2.2	1	12/21/18 09:58	12/21/18 20:56	106-93-4	
Dibromomethane	ND	ug/kg	6.2	3.1	1	12/21/18 09:58	12/21/18 20:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.2	2.4	1	12/21/18 09:58	12/21/18 20:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.2	2.5	1	12/21/18 09:58	12/21/18 20:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.2	2.1	1	12/21/18 09:58	12/21/18 20:56	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	12.4	4.5	1	12/21/18 09:58	12/21/18 20:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.2	1.9	1	12/21/18 09:58	12/21/18 20:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.2	2.7	1	12/21/18 09:58	12/21/18 20:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.2	2.2	1	12/21/18 09:58	12/21/18 20:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1.7	1	12/21/18 09:58	12/21/18 20:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.2	2.4	1	12/21/18 09:58	12/21/18 20:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.2	2.1	1	12/21/18 09:58	12/21/18 20:56	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.2	2.4	1	12/21/18 09:58	12/21/18 20:56	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.2	2.1	1	12/21/18 09:58	12/21/18 20:56	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.2	1.9	1	12/21/18 09:58	12/21/18 20:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.2	2.2	1	12/21/18 09:58	12/21/18 20:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.2	1.9	1	12/21/18 09:58	12/21/18 20:56	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.2	2.1	1	12/21/18 09:58	12/21/18 20:56	108-20-3	
Ethylbenzene	ND	ug/kg	6.2	2.2	1	12/21/18 09:58	12/21/18 20:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.2	2.5	1	12/21/18 09:58	12/21/18 20:56	87-68-3	
2-Hexanone	ND	ug/kg	62.1	4.8	1	12/21/18 09:58	12/21/18 20:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.2	2.4	1	12/21/18 09:58	12/21/18 20:56	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.2	2.1	1	12/21/18 09:58	12/21/18 20:56	99-87-6	
Methylene Chloride	ND	ug/kg	24.8	3.7	1	12/21/18 09:58	12/21/18 20:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	62.1	4.6	1	12/21/18 09:58	12/21/18 20:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.2	1.9	1	12/21/18 09:58	12/21/18 20:56	1634-04-4	
Naphthalene	ND	ug/kg	6.2	1.5	1	12/21/18 09:58	12/21/18 20:56	91-20-3	
n-Propylbenzene	ND	ug/kg	6.2	2.1	1	12/21/18 09:58	12/21/18 20:56	103-65-1	
Styrene	ND	ug/kg	6.2	2.2	1	12/21/18 09:58	12/21/18 20:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	2.6	1	12/21/18 09:58	12/21/18 20:56	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	2.4	1	12/21/18 09:58	12/21/18 20:56	79-34-5	
Tetrachloroethene	ND	ug/kg	6.2	2.1	1	12/21/18 09:58	12/21/18 20:56	127-18-4	L1
Toluene	ND	ug/kg	6.2	2.2	1	12/21/18 09:58	12/21/18 20:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.2	2.7	1	12/21/18 09:58	12/21/18 20:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.2	2.0	1	12/21/18 09:58	12/21/18 20:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.2	2.2	1	12/21/18 09:58	12/21/18 20:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.2	2.6	1	12/21/18 09:58	12/21/18 20:56	79-00-5	
Trichloroethene	ND	ug/kg	6.2	2.6	1	12/21/18 09:58	12/21/18 20:56	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-9-SED **Lab ID: 92411773003** Collected: 12/19/18 13:25 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A SC Volatile Org		Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Trichlorofluoromethane	ND	ug/kg	6.2	2.7	1	12/21/18 09:58	12/21/18 20:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.2	2.0	1	12/21/18 09:58	12/21/18 20:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.2	2.5	1	12/21/18 09:58	12/21/18 20:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.2	2.2	1	12/21/18 09:58	12/21/18 20:56	108-67-8	
Vinyl acetate	ND	ug/kg	62.1	10.9	1	12/21/18 09:58	12/21/18 20:56	108-05-4	
Vinyl chloride	ND	ug/kg	12.4	2.2	1	12/21/18 09:58	12/21/18 20:56	75-01-4	
Xylene (Total)	ND	ug/kg	12.4	4.5	1	12/21/18 09:58	12/21/18 20:56	1330-20-7	
m&p-Xylene	ND	ug/kg	12.4	4.5	1	12/21/18 09:58	12/21/18 20:56	179601-23-1	
o-Xylene	ND	ug/kg	6.2	2.4	1	12/21/18 09:58	12/21/18 20:56	95-47-6	
Surrogates									
Toluene-d8 (S)	107	%	70-130		1	12/21/18 09:58	12/21/18 20:56	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1	12/21/18 09:58	12/21/18 20:56	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1	12/21/18 09:58	12/21/18 20:56	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	20.7	%	0.10	0.10	1		12/21/18 16:51		

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-10-SED **Lab ID: 92411773004** Collected: 12/19/18 12:50 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	420	96.6	1	12/21/18 19:38	12/24/18 12:00	83-32-9	
Acenaphthylene	ND	ug/kg	420	99.2	1	12/21/18 19:38	12/24/18 12:00	208-96-8	
Aniline	ND	ug/kg	420	113	1	12/21/18 19:38	12/24/18 12:00	62-53-3	
Anthracene	ND	ug/kg	420	94.1	1	12/21/18 19:38	12/24/18 12:00	120-12-7	
Benzo(a)anthracene	ND	ug/kg	420	77.6	1	12/21/18 19:38	12/24/18 12:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	420	80.1	1	12/21/18 19:38	12/24/18 12:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	420	72.5	1	12/21/18 19:38	12/24/18 12:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	420	107	1	12/21/18 19:38	12/24/18 12:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	420	82.6	1	12/21/18 19:38	12/24/18 12:00	207-08-9	
Benzoic Acid	ND	ug/kg	2100	76.3	1	12/21/18 19:38	12/24/18 12:00	65-85-0	
Benzyl alcohol	ND	ug/kg	839	83.9	1	12/21/18 19:38	12/24/18 12:00	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	420	76.3	1	12/21/18 19:38	12/24/18 12:00	101-55-3	
Butylbenzylphthalate	ND	ug/kg	420	89.0	1	12/21/18 19:38	12/24/18 12:00	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	839	86.5	1	12/21/18 19:38	12/24/18 12:00	59-50-7	
4-Chloroaniline	ND	ug/kg	2100	117	1	12/21/18 19:38	12/24/18 12:00	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	420	97.9	1	12/21/18 19:38	12/24/18 12:00	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	420	107	1	12/21/18 19:38	12/24/18 12:00	111-44-4	
2-Chloronaphthalene	ND	ug/kg	420	82.6	1	12/21/18 19:38	12/24/18 12:00	91-58-7	
2-Chlorophenol	ND	ug/kg	420	114	1	12/21/18 19:38	12/24/18 12:00	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	420	86.5	1	12/21/18 19:38	12/24/18 12:00	7005-72-3	
Chrysene	ND	ug/kg	420	55.9	1	12/21/18 19:38	12/24/18 12:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	420	89.0	1	12/21/18 19:38	12/24/18 12:00	53-70-3	
Dibenzofuran	ND	ug/kg	420	68.7	1	12/21/18 19:38	12/24/18 12:00	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	420	112	1	12/21/18 19:38	12/24/18 12:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	420	95.4	1	12/21/18 19:38	12/24/18 12:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	420	118	1	12/21/18 19:38	12/24/18 12:00	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2100	91.5	1	12/21/18 19:38	12/24/18 12:00	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	420	91.5	1	12/21/18 19:38	12/24/18 12:00	120-83-2	
Diethylphthalate	ND	ug/kg	420	64.8	1	12/21/18 19:38	12/24/18 12:00	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	420	165	1	12/21/18 19:38	12/24/18 12:00	105-67-9	
Dimethylphthalate	ND	ug/kg	420	85.2	1	12/21/18 19:38	12/24/18 12:00	131-11-3	
Di-n-butylphthalate	ND	ug/kg	420	68.7	1	12/21/18 19:38	12/24/18 12:00	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	839	83.9	1	12/21/18 19:38	12/24/18 12:00	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2100	68.7	1	12/21/18 19:38	12/24/18 12:00	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	420	78.8	1	12/21/18 19:38	12/24/18 12:00	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	420	87.7	1	12/21/18 19:38	12/24/18 12:00	606-20-2	
Di-n-octylphthalate	ND	ug/kg	420	87.7	1	12/21/18 19:38	12/24/18 12:00	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	420	114	1	12/21/18 19:38	12/24/18 12:00	117-81-7	
Fluoranthene	ND	ug/kg	420	61.0	1	12/21/18 19:38	12/24/18 12:00	206-44-0	
Fluorene	ND	ug/kg	420	86.5	1	12/21/18 19:38	12/24/18 12:00	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	420	72.5	1	12/21/18 19:38	12/24/18 12:00	87-68-3	
Hexachlorobenzene	ND	ug/kg	420	53.4	1	12/21/18 19:38	12/24/18 12:00	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	420	77.6	1	12/21/18 19:38	12/24/18 12:00	77-47-4	
Hexachloroethane	ND	ug/kg	420	111	1	12/21/18 19:38	12/24/18 12:00	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	420	86.5	1	12/21/18 19:38	12/24/18 12:00	193-39-5	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-10-SED **Lab ID: 92411773004** Collected: 12/19/18 12:50 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Isophorone	ND	ug/kg	420	94.1	1	12/21/18 19:38	12/24/18 12:00	78-59-1	
1-Methylnaphthalene	ND	ug/kg	420	109	1	12/21/18 19:38	12/24/18 12:00	90-12-0	
2-Methylnaphthalene	ND	ug/kg	420	90.3	1	12/21/18 19:38	12/24/18 12:00	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	420	127	1	12/21/18 19:38	12/24/18 12:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	420	165	1	12/21/18 19:38	12/24/18 12:00	15831-10-4	
Naphthalene	ND	ug/kg	420	103	1	12/21/18 19:38	12/24/18 12:00	91-20-3	
2-Nitroaniline	ND	ug/kg	2100	130	1	12/21/18 19:38	12/24/18 12:00	88-74-4	
3-Nitroaniline	ND	ug/kg	2100	114	1	12/21/18 19:38	12/24/18 12:00	99-09-2	
4-Nitroaniline	ND	ug/kg	839	118	1	12/21/18 19:38	12/24/18 12:00	100-01-6	
Nitrobenzene	ND	ug/kg	420	114	1	12/21/18 19:38	12/24/18 12:00	98-95-3	
2-Nitrophenol	ND	ug/kg	420	102	1	12/21/18 19:38	12/24/18 12:00	88-75-5	
4-Nitrophenol	ND	ug/kg	2100	75.0	1	12/21/18 19:38	12/24/18 12:00	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	420	136	1	12/21/18 19:38	12/24/18 12:00	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	420	80.1	1	12/21/18 19:38	12/24/18 12:00	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	420	125	1	12/21/18 19:38	12/24/18 12:00	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	420	112	1	12/21/18 19:38	12/24/18 12:00	108-60-1	
Pentachlorophenol	ND	ug/kg	2100	76.3	1	12/21/18 19:38	12/24/18 12:00	87-86-5	
Phenanthrene	ND	ug/kg	420	69.9	1	12/21/18 19:38	12/24/18 12:00	85-01-8	
Phenol	ND	ug/kg	420	126	1	12/21/18 19:38	12/24/18 12:00	108-95-2	
Pyrene	ND	ug/kg	420	71.2	1	12/21/18 19:38	12/24/18 12:00	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	420	81.4	1	12/21/18 19:38	12/24/18 12:00	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	420	130	1	12/21/18 19:38	12/24/18 12:00	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	420	92.8	1	12/21/18 19:38	12/24/18 12:00	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	59	%	23-110		1	12/21/18 19:38	12/24/18 12:00	4165-60-0	
2-Fluorobiphenyl (S)	50	%	30-110		1	12/21/18 19:38	12/24/18 12:00	321-60-8	
Terphenyl-d14 (S)	42	%	28-110		1	12/21/18 19:38	12/24/18 12:00	1718-51-0	
Phenol-d6 (S)	55	%	22-110		1	12/21/18 19:38	12/24/18 12:00	13127-88-3	
2-Fluorophenol (S)	51	%	13-110		1	12/21/18 19:38	12/24/18 12:00	367-12-4	
2,4,6-Tribromophenol (S)	63	%	27-110		1	12/21/18 19:38	12/24/18 12:00	118-79-6	
8260/5035A SC Volatile Org									
Analytical Method: EPA 8260B Preparation Method: EPA 5035A									
Acetone	ND	ug/kg	88.8	8.9	1	12/21/18 09:58	12/21/18 13:48	67-64-1	
Benzene	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 13:48	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1.8	1	12/21/18 09:58	12/21/18 13:48	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 13:48	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 13:48	75-27-4	
Bromoform	ND	ug/kg	4.4	2.0	1	12/21/18 09:58	12/21/18 13:48	75-25-2	
Bromomethane	ND	ug/kg	8.9	2.2	1	12/21/18 09:58	12/21/18 13:48	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.8	2.6	1	12/21/18 09:58	12/21/18 13:48	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 13:48	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 13:48	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1.8	1	12/21/18 09:58	12/21/18 13:48	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	2.3	1	12/21/18 09:58	12/21/18 13:48	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 13:48	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Sample Project No.: 92411773

Sample: SW-10-SED **Lab ID: 92411773004** Collected: 12/19/18 12:50 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A SC Volatile Org		Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Chloroethane	ND	ug/kg	8.9	2.1	1	12/21/18 09:58	12/21/18 13:48	75-00-3	
Chloroform	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 13:48	67-66-3	
Chloromethane	ND	ug/kg	8.9	2.1	1	12/21/18 09:58	12/21/18 13:48	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 13:48	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 13:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	3.2	1	12/21/18 09:58	12/21/18 13:48	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 13:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 13:48	106-93-4	
Dibromomethane	ND	ug/kg	4.4	2.2	1	12/21/18 09:58	12/21/18 13:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 13:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1.8	1	12/21/18 09:58	12/21/18 13:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 13:48	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	3.2	1	12/21/18 09:58	12/21/18 13:48	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1.3	1	12/21/18 09:58	12/21/18 13:48	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	2.0	1	12/21/18 09:58	12/21/18 13:48	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 13:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1.2	1	12/21/18 09:58	12/21/18 13:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 13:48	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 13:48	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 13:48	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 13:48	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1.3	1	12/21/18 09:58	12/21/18 13:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 13:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1.3	1	12/21/18 09:58	12/21/18 13:48	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 13:48	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 13:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1.8	1	12/21/18 09:58	12/21/18 13:48	87-68-3	
2-Hexanone	ND	ug/kg	44.4	3.5	1	12/21/18 09:58	12/21/18 13:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 13:48	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 13:48	99-87-6	
Methylene Chloride	ND	ug/kg	17.8	2.7	1	12/21/18 09:58	12/21/18 13:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.4	3.3	1	12/21/18 09:58	12/21/18 13:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1.3	1	12/21/18 09:58	12/21/18 13:48	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1.1	1	12/21/18 09:58	12/21/18 13:48	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 13:48	103-65-1	
Styrene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 13:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1.9	1	12/21/18 09:58	12/21/18 13:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 13:48	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 13:48	127-18-4	L1
Toluene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 13:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	2.0	1	12/21/18 09:58	12/21/18 13:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 13:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 13:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1.9	1	12/21/18 09:58	12/21/18 13:48	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1.9	1	12/21/18 09:58	12/21/18 13:48	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519
Pace Project No.: 92411773

Sample: SW-10-SED **Lab ID: 92411773004** Collected: 12/19/18 12:50 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A SC Volatile Org		Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Trichlorofluoromethane	ND	ug/kg	4.4	2.0	1	12/21/18 09:58	12/21/18 13:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 13:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1.8	1	12/21/18 09:58	12/21/18 13:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 13:48	108-67-8	
Vinyl acetate	ND	ug/kg	44.4	7.8	1	12/21/18 09:58	12/21/18 13:48	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1.6	1	12/21/18 09:58	12/21/18 13:48	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	3.2	1	12/21/18 09:58	12/21/18 13:48	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	3.2	1	12/21/18 09:58	12/21/18 13:48	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 13:48	95-47-6	
Surrogates									
Toluene-d8 (S)	109	%	70-130		1	12/21/18 09:58	12/21/18 13:48	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1	12/21/18 09:58	12/21/18 13:48	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1	12/21/18 09:58	12/21/18 13:48	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	20.6	%	0.10	0.10	1		12/21/18 16:51		

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: **SW-11-SED** Lab ID: **92411773005** Collected: 12/19/18 11:45 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	449	103	1	12/21/18 19:38	12/24/18 12:28	83-32-9	
Acenaphthylene	ND	ug/kg	449	106	1	12/21/18 19:38	12/24/18 12:28	208-96-8	
Aniline	ND	ug/kg	449	121	1	12/21/18 19:38	12/24/18 12:28	62-53-3	
Anthracene	ND	ug/kg	449	101	1	12/21/18 19:38	12/24/18 12:28	120-12-7	
Benzo(a)anthracene	ND	ug/kg	449	82.9	1	12/21/18 19:38	12/24/18 12:28	56-55-3	
Benzo(a)pyrene	ND	ug/kg	449	85.6	1	12/21/18 19:38	12/24/18 12:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	449	77.5	1	12/21/18 19:38	12/24/18 12:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	449	114	1	12/21/18 19:38	12/24/18 12:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	449	88.3	1	12/21/18 19:38	12/24/18 12:28	207-08-9	
Benzoic Acid	ND	ug/kg	2240	81.5	1	12/21/18 19:38	12/24/18 12:28	65-85-0	
Benzyl alcohol	ND	ug/kg	897	89.7	1	12/21/18 19:38	12/24/18 12:28	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	449	81.5	1	12/21/18 19:38	12/24/18 12:28	101-55-3	
Butylbenzylphthalate	ND	ug/kg	449	95.1	1	12/21/18 19:38	12/24/18 12:28	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	897	92.4	1	12/21/18 19:38	12/24/18 12:28	59-50-7	
4-Chloroaniline	ND	ug/kg	2240	125	1	12/21/18 19:38	12/24/18 12:28	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	449	105	1	12/21/18 19:38	12/24/18 12:28	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	449	114	1	12/21/18 19:38	12/24/18 12:28	111-44-4	
2-Chloronaphthalene	ND	ug/kg	449	88.3	1	12/21/18 19:38	12/24/18 12:28	91-58-7	
2-Chlorophenol	ND	ug/kg	449	122	1	12/21/18 19:38	12/24/18 12:28	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	449	92.4	1	12/21/18 19:38	12/24/18 12:28	7005-72-3	
Chrysene	ND	ug/kg	449	59.8	1	12/21/18 19:38	12/24/18 12:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	449	95.1	1	12/21/18 19:38	12/24/18 12:28	53-70-3	
Dibenzofuran	ND	ug/kg	449	73.4	1	12/21/18 19:38	12/24/18 12:28	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	449	120	1	12/21/18 19:38	12/24/18 12:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	449	102	1	12/21/18 19:38	12/24/18 12:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	449	126	1	12/21/18 19:38	12/24/18 12:28	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2240	97.9	1	12/21/18 19:38	12/24/18 12:28	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	449	97.9	1	12/21/18 19:38	12/24/18 12:28	120-83-2	
Diethylphthalate	ND	ug/kg	449	69.3	1	12/21/18 19:38	12/24/18 12:28	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	449	177	1	12/21/18 19:38	12/24/18 12:28	105-67-9	
Dimethylphthalate	ND	ug/kg	449	91.1	1	12/21/18 19:38	12/24/18 12:28	131-11-3	
Di-n-butylphthalate	ND	ug/kg	449	73.4	1	12/21/18 19:38	12/24/18 12:28	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	897	89.7	1	12/21/18 19:38	12/24/18 12:28	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2240	73.4	1	12/21/18 19:38	12/24/18 12:28	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	449	84.3	1	12/21/18 19:38	12/24/18 12:28	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	449	93.8	1	12/21/18 19:38	12/24/18 12:28	606-20-2	
Di-n-octylphthalate	ND	ug/kg	449	93.8	1	12/21/18 19:38	12/24/18 12:28	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	449	122	1	12/21/18 19:38	12/24/18 12:28	117-81-7	
Fluoranthene	ND	ug/kg	449	65.2	1	12/21/18 19:38	12/24/18 12:28	206-44-0	
Fluorene	ND	ug/kg	449	92.4	1	12/21/18 19:38	12/24/18 12:28	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	449	77.5	1	12/21/18 19:38	12/24/18 12:28	87-68-3	
Hexachlorobenzene	ND	ug/kg	449	57.1	1	12/21/18 19:38	12/24/18 12:28	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	449	82.9	1	12/21/18 19:38	12/24/18 12:28	77-47-4	
Hexachloroethane	ND	ug/kg	449	118	1	12/21/18 19:38	12/24/18 12:28	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	449	92.4	1	12/21/18 19:38	12/24/18 12:28	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-11-SED **Lab ID: 92411773005** Collected: 12/19/18 11:45 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Isophorone	ND	ug/kg	449	101	1	12/21/18 19:38	12/24/18 12:28	78-59-1	
1-Methylnaphthalene	ND	ug/kg	449	117	1	12/21/18 19:38	12/24/18 12:28	90-12-0	
2-Methylnaphthalene	ND	ug/kg	449	96.5	1	12/21/18 19:38	12/24/18 12:28	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	449	136	1	12/21/18 19:38	12/24/18 12:28	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	449	177	1	12/21/18 19:38	12/24/18 12:28	15831-10-4	
Naphthalene	ND	ug/kg	449	110	1	12/21/18 19:38	12/24/18 12:28	91-20-3	
2-Nitroaniline	ND	ug/kg	2240	139	1	12/21/18 19:38	12/24/18 12:28	88-74-4	
3-Nitroaniline	ND	ug/kg	2240	122	1	12/21/18 19:38	12/24/18 12:28	99-09-2	
4-Nitroaniline	ND	ug/kg	897	126	1	12/21/18 19:38	12/24/18 12:28	100-01-6	
Nitrobenzene	ND	ug/kg	449	122	1	12/21/18 19:38	12/24/18 12:28	98-95-3	
2-Nitrophenol	ND	ug/kg	449	109	1	12/21/18 19:38	12/24/18 12:28	88-75-5	
4-Nitrophenol	ND	ug/kg	2240	80.2	1	12/21/18 19:38	12/24/18 12:28	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	449	145	1	12/21/18 19:38	12/24/18 12:28	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	449	85.6	1	12/21/18 19:38	12/24/18 12:28	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	449	133	1	12/21/18 19:38	12/24/18 12:28	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	449	120	1	12/21/18 19:38	12/24/18 12:28	108-60-1	
Pentachlorophenol	ND	ug/kg	2240	81.5	1	12/21/18 19:38	12/24/18 12:28	87-86-5	
Phenanthrene	ND	ug/kg	449	74.8	1	12/21/18 19:38	12/24/18 12:28	85-01-8	
Phenol	ND	ug/kg	449	135	1	12/21/18 19:38	12/24/18 12:28	108-95-2	
Pyrene	ND	ug/kg	449	76.1	1	12/21/18 19:38	12/24/18 12:28	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	449	87.0	1	12/21/18 19:38	12/24/18 12:28	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	449	139	1	12/21/18 19:38	12/24/18 12:28	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	449	99.2	1	12/21/18 19:38	12/24/18 12:28	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	51	%	23-110		1	12/21/18 19:38	12/24/18 12:28	4165-60-0	
2-Fluorobiphenyl (S)	41	%	30-110		1	12/21/18 19:38	12/24/18 12:28	321-60-8	
Terphenyl-d14 (S)	32	%	28-110		1	12/21/18 19:38	12/24/18 12:28	1718-51-0	
Phenol-d6 (S)	47	%	22-110		1	12/21/18 19:38	12/24/18 12:28	13127-88-3	
2-Fluorophenol (S)	48	%	13-110		1	12/21/18 19:38	12/24/18 12:28	367-12-4	
2,4,6-Tribromophenol (S)	51	%	27-110		1	12/21/18 19:38	12/24/18 12:28	118-79-6	
8260/5035A SC Volatile Org									
Analytical Method: EPA 8260B Preparation Method: EPA 5035A									
Acetone	ND	ug/kg	101	10.1	1	12/21/18 09:58	12/21/18 14:08	67-64-1	
Benzene	ND	ug/kg	5.0	1.6	1	12/21/18 09:58	12/21/18 14:08	71-43-2	
Bromobenzene	ND	ug/kg	5.0	2.0	1	12/21/18 09:58	12/21/18 14:08	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1.7	1	12/21/18 09:58	12/21/18 14:08	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1.9	1	12/21/18 09:58	12/21/18 14:08	75-27-4	
Bromoform	ND	ug/kg	5.0	2.3	1	12/21/18 09:58	12/21/18 14:08	75-25-2	
Bromomethane	ND	ug/kg	10.1	2.5	1	12/21/18 09:58	12/21/18 14:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	101	2.9	1	12/21/18 09:58	12/21/18 14:08	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1.8	1	12/21/18 09:58	12/21/18 14:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1.6	1	12/21/18 09:58	12/21/18 14:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	2.0	1	12/21/18 09:58	12/21/18 14:08	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	2.6	1	12/21/18 09:58	12/21/18 14:08	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1.9	1	12/21/18 09:58	12/21/18 14:08	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Sample Project No.: 92411773

Sample: SW-11-SED **Lab ID: 92411773005** Collected: 12/19/18 11:45 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A SC Volatile Org		Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Chloroethane	ND	ug/kg	10.1	2.4	1	12/21/18 09:58	12/21/18 14:08	75-00-3	
Chloroform	ND	ug/kg	5.0	1.6	1	12/21/18 09:58	12/21/18 14:08	67-66-3	
Chloromethane	ND	ug/kg	10.1	2.4	1	12/21/18 09:58	12/21/18 14:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1.7	1	12/21/18 09:58	12/21/18 14:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1.8	1	12/21/18 09:58	12/21/18 14:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	3.6	1	12/21/18 09:58	12/21/18 14:08	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1.8	1	12/21/18 09:58	12/21/18 14:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1.8	1	12/21/18 09:58	12/21/18 14:08	106-93-4	
Dibromomethane	ND	ug/kg	5.0	2.5	1	12/21/18 09:58	12/21/18 14:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1.9	1	12/21/18 09:58	12/21/18 14:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	2.0	1	12/21/18 09:58	12/21/18 14:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1.7	1	12/21/18 09:58	12/21/18 14:08	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.1	3.6	1	12/21/18 09:58	12/21/18 14:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1.5	1	12/21/18 09:58	12/21/18 14:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.2	1	12/21/18 09:58	12/21/18 14:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1.8	1	12/21/18 09:58	12/21/18 14:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1.4	1	12/21/18 09:58	12/21/18 14:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1.9	1	12/21/18 09:58	12/21/18 14:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1.7	1	12/21/18 09:58	12/21/18 14:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1.9	1	12/21/18 09:58	12/21/18 14:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1.7	1	12/21/18 09:58	12/21/18 14:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1.5	1	12/21/18 09:58	12/21/18 14:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1.8	1	12/21/18 09:58	12/21/18 14:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1.5	1	12/21/18 09:58	12/21/18 14:08	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1.7	1	12/21/18 09:58	12/21/18 14:08	108-20-3	
Ethylbenzene	ND	ug/kg	5.0	1.8	1	12/21/18 09:58	12/21/18 14:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	2.0	1	12/21/18 09:58	12/21/18 14:08	87-68-3	
2-Hexanone	ND	ug/kg	50.3	3.9	1	12/21/18 09:58	12/21/18 14:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1.9	1	12/21/18 09:58	12/21/18 14:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1.7	1	12/21/18 09:58	12/21/18 14:08	99-87-6	
Methylene Chloride	ND	ug/kg	20.1	3.0	1	12/21/18 09:58	12/21/18 14:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.3	3.7	1	12/21/18 09:58	12/21/18 14:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1.5	1	12/21/18 09:58	12/21/18 14:08	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1.2	1	12/21/18 09:58	12/21/18 14:08	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1.7	1	12/21/18 09:58	12/21/18 14:08	103-65-1	
Styrene	ND	ug/kg	5.0	1.8	1	12/21/18 09:58	12/21/18 14:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	2.1	1	12/21/18 09:58	12/21/18 14:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1.9	1	12/21/18 09:58	12/21/18 14:08	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1.7	1	12/21/18 09:58	12/21/18 14:08	127-18-4	L1
Toluene	ND	ug/kg	5.0	1.8	1	12/21/18 09:58	12/21/18 14:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	2.2	1	12/21/18 09:58	12/21/18 14:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1.6	1	12/21/18 09:58	12/21/18 14:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1.8	1	12/21/18 09:58	12/21/18 14:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.1	1	12/21/18 09:58	12/21/18 14:08	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.1	1	12/21/18 09:58	12/21/18 14:08	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-11-SED **Lab ID: 92411773005** Collected: 12/19/18 11:45 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260/5035A SC Volatile Org			Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
Trichlorofluoromethane	ND	ug/kg	5.0	2.2	1	12/21/18 09:58	12/21/18 14:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1.6	1	12/21/18 09:58	12/21/18 14:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	2.0	1	12/21/18 09:58	12/21/18 14:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1.8	1	12/21/18 09:58	12/21/18 14:08	108-67-8	
Vinyl acetate	ND	ug/kg	50.3	8.8	1	12/21/18 09:58	12/21/18 14:08	108-05-4	
Vinyl chloride	ND	ug/kg	10.1	1.8	1	12/21/18 09:58	12/21/18 14:08	75-01-4	
Xylene (Total)	ND	ug/kg	10.1	3.6	1	12/21/18 09:58	12/21/18 14:08	1330-20-7	
m&p-Xylene	ND	ug/kg	10.1	3.6	1	12/21/18 09:58	12/21/18 14:08	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1.9	1	12/21/18 09:58	12/21/18 14:08	95-47-6	
Surrogates									
Toluene-d8 (S)	108	%	70-130		1	12/21/18 09:58	12/21/18 14:08	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1	12/21/18 09:58	12/21/18 14:08	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1	12/21/18 09:58	12/21/18 14:08	17060-07-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	26.7	%	0.10	0.10	1		12/21/18 16:51		

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: **SW-DUP1-SED** Lab ID: **92411773006** Collected: 12/19/18 09:00 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	419	96.4	1	12/21/18 19:38	12/24/18 12:55	83-32-9	
Acenaphthylene	ND	ug/kg	419	99.0	1	12/21/18 19:38	12/24/18 12:55	208-96-8	
Aniline	ND	ug/kg	419	113	1	12/21/18 19:38	12/24/18 12:55	62-53-3	
Anthracene	ND	ug/kg	419	93.9	1	12/21/18 19:38	12/24/18 12:55	120-12-7	
Benzo(a)anthracene	145J	ug/kg	419	77.4	1	12/21/18 19:38	12/24/18 12:55	56-55-3	
Benzo(a)pyrene	162J	ug/kg	419	79.9	1	12/21/18 19:38	12/24/18 12:55	50-32-8	
Benzo(b)fluoranthene	213J	ug/kg	419	72.3	1	12/21/18 19:38	12/24/18 12:55	205-99-2	
Benzo(g,h,i)perylene	124J	ug/kg	419	107	1	12/21/18 19:38	12/24/18 12:55	191-24-2	
Benzo(k)fluoranthene	92.0J	ug/kg	419	82.5	1	12/21/18 19:38	12/24/18 12:55	207-08-9	
Benzoic Acid	ND	ug/kg	2090	76.1	1	12/21/18 19:38	12/24/18 12:55	65-85-0	
Benzyl alcohol	ND	ug/kg	838	83.8	1	12/21/18 19:38	12/24/18 12:55	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	419	76.1	1	12/21/18 19:38	12/24/18 12:55	101-55-3	
Butylbenzylphthalate	ND	ug/kg	419	88.8	1	12/21/18 19:38	12/24/18 12:55	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	838	86.3	1	12/21/18 19:38	12/24/18 12:55	59-50-7	
4-Chloroaniline	ND	ug/kg	2090	117	1	12/21/18 19:38	12/24/18 12:55	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	419	97.7	1	12/21/18 19:38	12/24/18 12:55	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	419	107	1	12/21/18 19:38	12/24/18 12:55	111-44-4	
2-Chloronaphthalene	ND	ug/kg	419	82.5	1	12/21/18 19:38	12/24/18 12:55	91-58-7	
2-Chlorophenol	ND	ug/kg	419	114	1	12/21/18 19:38	12/24/18 12:55	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	419	86.3	1	12/21/18 19:38	12/24/18 12:55	7005-72-3	
Chrysene	141J	ug/kg	419	55.8	1	12/21/18 19:38	12/24/18 12:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	419	88.8	1	12/21/18 19:38	12/24/18 12:55	53-70-3	
Dibenzofuran	ND	ug/kg	419	68.5	1	12/21/18 19:38	12/24/18 12:55	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	419	112	1	12/21/18 19:38	12/24/18 12:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	419	95.2	1	12/21/18 19:38	12/24/18 12:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	419	118	1	12/21/18 19:38	12/24/18 12:55	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2090	91.4	1	12/21/18 19:38	12/24/18 12:55	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	419	91.4	1	12/21/18 19:38	12/24/18 12:55	120-83-2	
Diethylphthalate	ND	ug/kg	419	64.7	1	12/21/18 19:38	12/24/18 12:55	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	419	165	1	12/21/18 19:38	12/24/18 12:55	105-67-9	
Dimethylphthalate	ND	ug/kg	419	85.0	1	12/21/18 19:38	12/24/18 12:55	131-11-3	
Di-n-butylphthalate	ND	ug/kg	419	68.5	1	12/21/18 19:38	12/24/18 12:55	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	838	83.8	1	12/21/18 19:38	12/24/18 12:55	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2090	68.5	1	12/21/18 19:38	12/24/18 12:55	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	419	78.7	1	12/21/18 19:38	12/24/18 12:55	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	419	87.6	1	12/21/18 19:38	12/24/18 12:55	606-20-2	
Di-n-octylphthalate	ND	ug/kg	419	87.6	1	12/21/18 19:38	12/24/18 12:55	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	419	114	1	12/21/18 19:38	12/24/18 12:55	117-81-7	
Fluoranthene	230J	ug/kg	419	60.9	1	12/21/18 19:38	12/24/18 12:55	206-44-0	
Fluorene	ND	ug/kg	419	86.3	1	12/21/18 19:38	12/24/18 12:55	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	419	72.3	1	12/21/18 19:38	12/24/18 12:55	87-68-3	
Hexachlorobenzene	ND	ug/kg	419	53.3	1	12/21/18 19:38	12/24/18 12:55	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	419	77.4	1	12/21/18 19:38	12/24/18 12:55	77-47-4	
Hexachloroethane	ND	ug/kg	419	110	1	12/21/18 19:38	12/24/18 12:55	67-72-1	
Indeno(1,2,3-cd)pyrene	104J	ug/kg	419	86.3	1	12/21/18 19:38	12/24/18 12:55	193-39-5	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-DUP1-SED **Lab ID: 92411773006** Collected: 12/19/18 09:00 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Isophorone	ND	ug/kg	419	93.9	1	12/21/18 19:38	12/24/18 12:55	78-59-1	
1-Methylnaphthalene	ND	ug/kg	419	109	1	12/21/18 19:38	12/24/18 12:55	90-12-0	
2-Methylnaphthalene	ND	ug/kg	419	90.1	1	12/21/18 19:38	12/24/18 12:55	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	419	127	1	12/21/18 19:38	12/24/18 12:55	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	419	165	1	12/21/18 19:38	12/24/18 12:55	15831-10-4	
Naphthalene	ND	ug/kg	419	103	1	12/21/18 19:38	12/24/18 12:55	91-20-3	
2-Nitroaniline	ND	ug/kg	2090	129	1	12/21/18 19:38	12/24/18 12:55	88-74-4	
3-Nitroaniline	ND	ug/kg	2090	114	1	12/21/18 19:38	12/24/18 12:55	99-09-2	
4-Nitroaniline	ND	ug/kg	838	118	1	12/21/18 19:38	12/24/18 12:55	100-01-6	
Nitrobenzene	ND	ug/kg	419	114	1	12/21/18 19:38	12/24/18 12:55	98-95-3	
2-Nitrophenol	ND	ug/kg	419	102	1	12/21/18 19:38	12/24/18 12:55	88-75-5	
4-Nitrophenol	ND	ug/kg	2090	74.9	1	12/21/18 19:38	12/24/18 12:55	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	419	136	1	12/21/18 19:38	12/24/18 12:55	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	419	79.9	1	12/21/18 19:38	12/24/18 12:55	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	419	124	1	12/21/18 19:38	12/24/18 12:55	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	419	112	1	12/21/18 19:38	12/24/18 12:55	108-60-1	
Pentachlorophenol	ND	ug/kg	2090	76.1	1	12/21/18 19:38	12/24/18 12:55	87-86-5	
Phenanthrene	ND	ug/kg	419	69.8	1	12/21/18 19:38	12/24/18 12:55	85-01-8	
Phenol	ND	ug/kg	419	126	1	12/21/18 19:38	12/24/18 12:55	108-95-2	
Pyrene	197J	ug/kg	419	71.1	1	12/21/18 19:38	12/24/18 12:55	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	419	81.2	1	12/21/18 19:38	12/24/18 12:55	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	419	129	1	12/21/18 19:38	12/24/18 12:55	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	419	92.6	1	12/21/18 19:38	12/24/18 12:55	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	61	%	23-110		1	12/21/18 19:38	12/24/18 12:55	4165-60-0	
2-Fluorobiphenyl (S)	51	%	30-110		1	12/21/18 19:38	12/24/18 12:55	321-60-8	
Terphenyl-d14 (S)	43	%	28-110		1	12/21/18 19:38	12/24/18 12:55	1718-51-0	
Phenol-d6 (S)	59	%	22-110		1	12/21/18 19:38	12/24/18 12:55	13127-88-3	
2-Fluorophenol (S)	55	%	13-110		1	12/21/18 19:38	12/24/18 12:55	367-12-4	
2,4,6-Tribromophenol (S)	61	%	27-110		1	12/21/18 19:38	12/24/18 12:55	118-79-6	
8260/5035A SC Volatile Org									
Analytical Method: EPA 8260B Preparation Method: EPA 5035A									
Acetone	ND	ug/kg	87.1	8.7	1	12/21/18 09:58	12/21/18 14:27	67-64-1	
Benzene	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 14:27	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:27	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:27	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:27	75-27-4	
Bromoform	ND	ug/kg	4.4	2.0	1	12/21/18 09:58	12/21/18 14:27	75-25-2	
Bromomethane	ND	ug/kg	8.7	2.2	1	12/21/18 09:58	12/21/18 14:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	87.1	2.5	1	12/21/18 09:58	12/21/18 14:27	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 14:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:27	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	2.3	1	12/21/18 09:58	12/21/18 14:27	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:27	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Sample Project No.: 92411773

Sample: SW-DUP1-SED **Lab ID: 92411773006** Collected: 12/19/18 09:00 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A SC Volatile Org									
Analytical Method: EPA 8260B Preparation Method: EPA 5035A									
Chloroethane	ND	ug/kg	8.7	2.1	1	12/21/18 09:58	12/21/18 14:27	75-00-3	
Chloroform	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 14:27	67-66-3	
Chloromethane	ND	ug/kg	8.7	2.1	1	12/21/18 09:58	12/21/18 14:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	3.1	1	12/21/18 09:58	12/21/18 14:27	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:27	106-93-4	
Dibromomethane	ND	ug/kg	4.4	2.2	1	12/21/18 09:58	12/21/18 14:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.7	3.1	1	12/21/18 09:58	12/21/18 14:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1.3	1	12/21/18 09:58	12/21/18 14:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1.9	1	12/21/18 09:58	12/21/18 14:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1.2	1	12/21/18 09:58	12/21/18 14:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1.3	1	12/21/18 09:58	12/21/18 14:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1.3	1	12/21/18 09:58	12/21/18 14:27	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:27	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:27	87-68-3	
2-Hexanone	ND	ug/kg	43.5	3.4	1	12/21/18 09:58	12/21/18 14:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:27	99-87-6	
Methylene Chloride	ND	ug/kg	17.4	2.6	1	12/21/18 09:58	12/21/18 14:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.5	3.2	1	12/21/18 09:58	12/21/18 14:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1.3	1	12/21/18 09:58	12/21/18 14:27	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1.0	1	12/21/18 09:58	12/21/18 14:27	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:27	103-65-1	
Styrene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1.8	1	12/21/18 09:58	12/21/18 14:27	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:27	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:27	127-18-4	L1
Toluene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1.9	1	12/21/18 09:58	12/21/18 14:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 14:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:27	71-55-6	
1,1,1,2-Trichloroethane	ND	ug/kg	4.4	1.8	1	12/21/18 09:58	12/21/18 14:27	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1.8	1	12/21/18 09:58	12/21/18 14:27	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: SW-DUP1-SED **Lab ID: 92411773006** Collected: 12/19/18 09:00 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A SC Volatile Org		Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Trichlorofluoromethane	ND	ug/kg	4.4	1.9	1	12/21/18 09:58	12/21/18 14:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 14:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:27	108-67-8	
Vinyl acetate	ND	ug/kg	43.5	7.7	1	12/21/18 09:58	12/21/18 14:27	108-05-4	
Vinyl chloride	ND	ug/kg	8.7	1.6	1	12/21/18 09:58	12/21/18 14:27	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	3.1	1	12/21/18 09:58	12/21/18 14:27	1330-20-7	
m&p-Xylene	ND	ug/kg	8.7	3.1	1	12/21/18 09:58	12/21/18 14:27	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:27	95-47-6	
Surrogates									
Toluene-d8 (S)	106	%	70-130		1	12/21/18 09:58	12/21/18 14:27	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1	12/21/18 09:58	12/21/18 14:27	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1	12/21/18 09:58	12/21/18 14:27	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	20.1	%	0.10	0.10	1		12/21/18 16:51		

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: **SW-12 MS/MSD-SED** Lab ID: **92411773007** Collected: 12/19/18 10:30 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	411	94.7	1	12/21/18 19:38	12/26/18 13:19	83-32-9	
Acenaphthylene	106J	ug/kg	411	97.2	1	12/21/18 19:38	12/26/18 13:19	208-96-8	
Aniline	ND	ug/kg	411	111	1	12/21/18 19:38	12/26/18 13:19	62-53-3	
Anthracene	167J	ug/kg	411	92.2	1	12/21/18 19:38	12/26/18 13:19	120-12-7	
Benzo(a)anthracene	503	ug/kg	411	76.0	1	12/21/18 19:38	12/26/18 13:19	56-55-3	
Benzo(a)pyrene	435	ug/kg	411	78.5	1	12/21/18 19:38	12/26/18 13:19	50-32-8	
Benzo(b)fluoranthene	562	ug/kg	411	71.1	1	12/21/18 19:38	12/26/18 13:19	205-99-2	
Benzo(g,h,i)perylene	183J	ug/kg	411	105	1	12/21/18 19:38	12/26/18 13:19	191-24-2	
Benzo(k)fluoranthene	236J	ug/kg	411	81.0	1	12/21/18 19:38	12/26/18 13:19	207-08-9	
Benzoic Acid	ND	ug/kg	2060	74.8	1	12/21/18 19:38	12/26/18 13:19	65-85-0	
Benzyl alcohol	ND	ug/kg	823	82.3	1	12/21/18 19:38	12/26/18 13:19	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	411	74.8	1	12/21/18 19:38	12/26/18 13:19	101-55-3	
Butylbenzylphthalate	ND	ug/kg	411	87.3	1	12/21/18 19:38	12/26/18 13:19	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	823	84.8	1	12/21/18 19:38	12/26/18 13:19	59-50-7	
4-Chloroaniline	ND	ug/kg	2060	115	1	12/21/18 19:38	12/26/18 13:19	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	411	96.0	1	12/21/18 19:38	12/26/18 13:19	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	411	105	1	12/21/18 19:38	12/26/18 13:19	111-44-4	
2-Chloronaphthalene	ND	ug/kg	411	81.0	1	12/21/18 19:38	12/26/18 13:19	91-58-7	
2-Chlorophenol	ND	ug/kg	411	112	1	12/21/18 19:38	12/26/18 13:19	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	411	84.8	1	12/21/18 19:38	12/26/18 13:19	7005-72-3	
Chrysene	490	ug/kg	411	54.8	1	12/21/18 19:38	12/26/18 13:19	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	411	87.3	1	12/21/18 19:38	12/26/18 13:19	53-70-3	
Dibenzofuran	ND	ug/kg	411	67.3	1	12/21/18 19:38	12/26/18 13:19	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	411	110	1	12/21/18 19:38	12/26/18 13:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	411	93.5	1	12/21/18 19:38	12/26/18 13:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	411	116	1	12/21/18 19:38	12/26/18 13:19	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2060	89.7	1	12/21/18 19:38	12/26/18 13:19	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	411	89.7	1	12/21/18 19:38	12/26/18 13:19	120-83-2	
Diethylphthalate	ND	ug/kg	411	63.6	1	12/21/18 19:38	12/26/18 13:19	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	411	162	1	12/21/18 19:38	12/26/18 13:19	105-67-9	
Dimethylphthalate	ND	ug/kg	411	83.5	1	12/21/18 19:38	12/26/18 13:19	131-11-3	
Di-n-butylphthalate	ND	ug/kg	411	67.3	1	12/21/18 19:38	12/26/18 13:19	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	823	82.3	1	12/21/18 19:38	12/26/18 13:19	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2060	67.3	1	12/21/18 19:38	12/26/18 13:19	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	411	77.3	1	12/21/18 19:38	12/26/18 13:19	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	411	86.0	1	12/21/18 19:38	12/26/18 13:19	606-20-2	
Di-n-octylphthalate	ND	ug/kg	411	86.0	1	12/21/18 19:38	12/26/18 13:19	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	411	112	1	12/21/18 19:38	12/26/18 13:19	117-81-7	
Fluoranthene	822	ug/kg	411	59.8	1	12/21/18 19:38	12/26/18 13:19	206-44-0	
Fluorene	ND	ug/kg	411	84.8	1	12/21/18 19:38	12/26/18 13:19	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	411	71.1	1	12/21/18 19:38	12/26/18 13:19	87-68-3	
Hexachlorobenzene	ND	ug/kg	411	52.4	1	12/21/18 19:38	12/26/18 13:19	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	411	76.0	1	12/21/18 19:38	12/26/18 13:19	77-47-4	
Hexachloroethane	ND	ug/kg	411	108	1	12/21/18 19:38	12/26/18 13:19	67-72-1	
Indeno(1,2,3-cd)pyrene	186J	ug/kg	411	84.8	1	12/21/18 19:38	12/26/18 13:19	193-39-5	

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Sample: **SW-12 MS/MSD-SED** Lab ID: **92411773007** Collected: 12/19/18 10:30 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave SC									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Isophorone	ND	ug/kg	411	92.2	1	12/21/18 19:38	12/26/18 13:19	78-59-1	
1-Methylnaphthalene	ND	ug/kg	411	107	1	12/21/18 19:38	12/26/18 13:19	90-12-0	
2-Methylnaphthalene	ND	ug/kg	411	88.5	1	12/21/18 19:38	12/26/18 13:19	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	411	125	1	12/21/18 19:38	12/26/18 13:19	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	411	162	1	12/21/18 19:38	12/26/18 13:19	15831-10-4	
Naphthalene	ND	ug/kg	411	101	1	12/21/18 19:38	12/26/18 13:19	91-20-3	
2-Nitroaniline	ND	ug/kg	2060	127	1	12/21/18 19:38	12/26/18 13:19	88-74-4	
3-Nitroaniline	ND	ug/kg	2060	112	1	12/21/18 19:38	12/26/18 13:19	99-09-2	
4-Nitroaniline	ND	ug/kg	823	116	1	12/21/18 19:38	12/26/18 13:19	100-01-6	
Nitrobenzene	ND	ug/kg	411	112	1	12/21/18 19:38	12/26/18 13:19	98-95-3	
2-Nitrophenol	ND	ug/kg	411	99.7	1	12/21/18 19:38	12/26/18 13:19	88-75-5	
4-Nitrophenol	ND	ug/kg	2060	73.5	1	12/21/18 19:38	12/26/18 13:19	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	411	133	1	12/21/18 19:38	12/26/18 13:19	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	411	78.5	1	12/21/18 19:38	12/26/18 13:19	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	411	122	1	12/21/18 19:38	12/26/18 13:19	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	411	110	1	12/21/18 19:38	12/26/18 13:19	108-60-1	
Pentachlorophenol	ND	ug/kg	2060	74.8	1	12/21/18 19:38	12/26/18 13:19	87-86-5	
Phenanthrene	217J	ug/kg	411	68.6	1	12/21/18 19:38	12/26/18 13:19	85-01-8	
Phenol	ND	ug/kg	411	123	1	12/21/18 19:38	12/26/18 13:19	108-95-2	
Pyrene	791	ug/kg	411	69.8	1	12/21/18 19:38	12/26/18 13:19	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	411	79.8	1	12/21/18 19:38	12/26/18 13:19	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	411	127	1	12/21/18 19:38	12/26/18 13:19	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	411	91.0	1	12/21/18 19:38	12/26/18 13:19	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	57	%	23-110		1	12/21/18 19:38	12/26/18 13:19	4165-60-0	
2-Fluorobiphenyl (S)	57	%	30-110		1	12/21/18 19:38	12/26/18 13:19	321-60-8	
Terphenyl-d14 (S)	53	%	28-110		1	12/21/18 19:38	12/26/18 13:19	1718-51-0	
Phenol-d6 (S)	50	%	22-110		1	12/21/18 19:38	12/26/18 13:19	13127-88-3	
2-Fluorophenol (S)	48	%	13-110		1	12/21/18 19:38	12/26/18 13:19	367-12-4	
2,4,6-Tribromophenol (S)	89	%	27-110		1	12/21/18 19:38	12/26/18 13:19	118-79-6	
8260/5035A SC Volatile Org									
Analytical Method: EPA 8260B Preparation Method: EPA 5035A									
Acetone	ND	ug/kg	88.1	8.8	1	12/21/18 09:58	12/21/18 14:47	67-64-1	
Benzene	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 14:47	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1.8	1	12/21/18 09:58	12/21/18 14:47	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:47	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:47	75-27-4	
Bromoform	ND	ug/kg	4.4	2.0	1	12/21/18 09:58	12/21/18 14:47	75-25-2	M1
Bromomethane	ND	ug/kg	8.8	2.2	1	12/21/18 09:58	12/21/18 14:47	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.1	2.6	1	12/21/18 09:58	12/21/18 14:47	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:47	104-51-8	M1
sec-Butylbenzene	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 14:47	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1.8	1	12/21/18 09:58	12/21/18 14:47	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	2.3	1	12/21/18 09:58	12/21/18 14:47	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:47	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519

Sample Project No.: 92411773

Sample: **SW-12 MS/MSD-SED** Lab ID: **92411773007** Collected: 12/19/18 10:30 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A SC Volatile Org									
Analytical Method: EPA 8260B Preparation Method: EPA 5035A									
Chloroethane	ND	ug/kg	8.8	2.1	1	12/21/18 09:58	12/21/18 14:47	75-00-3	
Chloroform	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 14:47	67-66-3	
Chloromethane	ND	ug/kg	8.8	2.1	1	12/21/18 09:58	12/21/18 14:47	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:47	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	3.2	1	12/21/18 09:58	12/21/18 14:47	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:47	106-93-4	
Dibromomethane	ND	ug/kg	4.4	2.2	1	12/21/18 09:58	12/21/18 14:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1.8	1	12/21/18 09:58	12/21/18 14:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:47	106-46-7	M1
Dichlorodifluoromethane	ND	ug/kg	8.8	3.2	1	12/21/18 09:58	12/21/18 14:47	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1.3	1	12/21/18 09:58	12/21/18 14:47	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1.9	1	12/21/18 09:58	12/21/18 14:47	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1.2	1	12/21/18 09:58	12/21/18 14:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:47	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:47	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:47	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:47	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1.3	1	12/21/18 09:58	12/21/18 14:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1.3	1	12/21/18 09:58	12/21/18 14:47	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:47	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1.8	1	12/21/18 09:58	12/21/18 14:47	87-68-3	M1,R1
2-Hexanone	ND	ug/kg	44.1	3.4	1	12/21/18 09:58	12/21/18 14:47	591-78-6	M1
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:47	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:47	99-87-6	M1
Methylene Chloride	ND	ug/kg	17.6	2.6	1	12/21/18 09:58	12/21/18 14:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.1	3.3	1	12/21/18 09:58	12/21/18 14:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1.3	1	12/21/18 09:58	12/21/18 14:47	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1.1	1	12/21/18 09:58	12/21/18 14:47	91-20-3	M1
n-Propylbenzene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:47	103-65-1	
Styrene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:47	100-42-5	M1,R1
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1.9	1	12/21/18 09:58	12/21/18 14:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:47	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1.5	1	12/21/18 09:58	12/21/18 14:47	127-18-4	L1,M0
Toluene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1.9	1	12/21/18 09:58	12/21/18 14:47	87-61-6	M1,R1
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 14:47	120-82-1	M1,R1
1,1,1-Trichloroethane	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1.9	1	12/21/18 09:58	12/21/18 14:47	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1.9	1	12/21/18 09:58	12/21/18 14:47	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Bramlette MGP J18120519
Pace Project No.: 92411773

Sample: SW-12 MS/MSD-SED **Lab ID: 92411773007** Collected: 12/19/18 10:30 Received: 12/20/18 11:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A SC Volatile Org									
Analytical Method: EPA 8260B Preparation Method: EPA 5035A									
Trichlorofluoromethane	ND	ug/kg	4.4	1.9	1	12/21/18 09:58	12/21/18 14:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1.4	1	12/21/18 09:58	12/21/18 14:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1.8	1	12/21/18 09:58	12/21/18 14:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1.6	1	12/21/18 09:58	12/21/18 14:47	108-67-8	
Vinyl acetate	ND	ug/kg	44.1	7.8	1	12/21/18 09:58	12/21/18 14:47	108-05-4	M1
Vinyl chloride	ND	ug/kg	8.8	1.6	1	12/21/18 09:58	12/21/18 14:47	75-01-4	
Xylene (Total)	ND	ug/kg	8.8	3.2	1	12/21/18 09:58	12/21/18 14:47	1330-20-7	MS
m&p-Xylene	ND	ug/kg	8.8	3.2	1	12/21/18 09:58	12/21/18 14:47	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1.7	1	12/21/18 09:58	12/21/18 14:47	95-47-6	M1
Surrogates									
Toluene-d8 (S)	106	%	70-130		1	12/21/18 09:58	12/21/18 14:47	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1	12/21/18 09:58	12/21/18 14:47	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1	12/21/18 09:58	12/21/18 14:47	17060-07-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	20.3	%	0.10	0.10	1		12/21/18 16:52		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

QC Batch: 449048 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035A Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92411773001, 92411773002, 92411773003, 92411773004, 92411773005, 92411773006, 92411773007

METHOD BLANK: 2459219 Matrix: Solid
Associated Lab Samples: 92411773001, 92411773002, 92411773003, 92411773004, 92411773005, 92411773006, 92411773007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.1	2.1	12/21/18 11:15	
1,1,1-Trichloroethane	ug/kg	ND	5.1	1.8	12/21/18 11:15	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.1	1.9	12/21/18 11:15	
1,1,2-Trichloroethane	ug/kg	ND	5.1	2.1	12/21/18 11:15	
1,1-Dichloroethane	ug/kg	ND	5.1	1.5	12/21/18 11:15	
1,1-Dichloroethene	ug/kg	ND	5.1	1.8	12/21/18 11:15	
1,1-Dichloropropene	ug/kg	ND	5.1	1.5	12/21/18 11:15	
1,2,3-Trichlorobenzene	ug/kg	ND	5.1	2.2	12/21/18 11:15	
1,2,3-Trichloropropane	ug/kg	ND	5.1	1.6	12/21/18 11:15	
1,2,4-Trichlorobenzene	ug/kg	ND	5.1	1.6	12/21/18 11:15	
1,2,4-Trimethylbenzene	ug/kg	ND	5.1	2.0	12/21/18 11:15	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.1	3.7	12/21/18 11:15	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.1	1.8	12/21/18 11:15	
1,2-Dichlorobenzene	ug/kg	ND	5.1	1.9	12/21/18 11:15	
1,2-Dichloroethane	ug/kg	ND	5.1	2.2	12/21/18 11:15	
1,2-Dichloropropane	ug/kg	ND	5.1	1.7	12/21/18 11:15	
1,3,5-Trimethylbenzene	ug/kg	ND	5.1	1.8	12/21/18 11:15	
1,3-Dichlorobenzene	ug/kg	ND	5.1	2.0	12/21/18 11:15	
1,3-Dichloropropane	ug/kg	ND	5.1	1.9	12/21/18 11:15	
1,4-Dichlorobenzene	ug/kg	ND	5.1	1.7	12/21/18 11:15	
2,2-Dichloropropane	ug/kg	ND	5.1	1.7	12/21/18 11:15	
2-Butanone (MEK)	ug/kg	ND	102	2.9	12/21/18 11:15	
2-Chlorotoluene	ug/kg	ND	5.1	1.7	12/21/18 11:15	
2-Hexanone	ug/kg	ND	50.8	4.0	12/21/18 11:15	
4-Chlorotoluene	ug/kg	ND	5.1	1.8	12/21/18 11:15	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.8	3.8	12/21/18 11:15	
Acetone	ug/kg	ND	102	10.2	12/21/18 11:15	
Benzene	ug/kg	ND	5.1	1.6	12/21/18 11:15	
Bromobenzene	ug/kg	ND	5.1	2.0	12/21/18 11:15	
Bromochloromethane	ug/kg	ND	5.1	1.7	12/21/18 11:15	
Bromodichloromethane	ug/kg	ND	5.1	1.9	12/21/18 11:15	
Bromoform	ug/kg	ND	5.1	2.3	12/21/18 11:15	
Bromomethane	ug/kg	ND	10.2	2.5	12/21/18 11:15	
Carbon tetrachloride	ug/kg	ND	5.1	2.6	12/21/18 11:15	
Chlorobenzene	ug/kg	ND	5.1	1.9	12/21/18 11:15	
Chloroethane	ug/kg	ND	10.2	2.4	12/21/18 11:15	
Chloroform	ug/kg	ND	5.1	1.6	12/21/18 11:15	
Chloromethane	ug/kg	ND	10.2	2.4	12/21/18 11:15	
cis-1,2-Dichloroethene	ug/kg	ND	5.1	1.4	12/21/18 11:15	
cis-1,3-Dichloropropene	ug/kg	ND	5.1	1.8	12/21/18 11:15	
Dibromochloromethane	ug/kg	ND	5.1	1.8	12/21/18 11:15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

METHOD BLANK: 2459219

Matrix: Solid

Associated Lab Samples: 92411773001, 92411773002, 92411773003, 92411773004, 92411773005, 92411773006, 92411773007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.1	2.5	12/21/18 11:15	
Dichlorodifluoromethane	ug/kg	ND	10.2	3.7	12/21/18 11:15	
Diisopropyl ether	ug/kg	ND	5.1	1.7	12/21/18 11:15	
Ethylbenzene	ug/kg	ND	5.1	1.8	12/21/18 11:15	
Hexachloro-1,3-butadiene	ug/kg	ND	5.1	2.0	12/21/18 11:15	
Isopropylbenzene (Cumene)	ug/kg	ND	5.1	1.9	12/21/18 11:15	
m&p-Xylene	ug/kg	ND	10.2	3.7	12/21/18 11:15	
Methyl-tert-butyl ether	ug/kg	ND	5.1	1.5	12/21/18 11:15	
Methylene Chloride	ug/kg	ND	20.3	3.0	12/21/18 11:15	
n-Butylbenzene	ug/kg	ND	5.1	1.8	12/21/18 11:15	
n-Propylbenzene	ug/kg	ND	5.1	1.7	12/21/18 11:15	
Naphthalene	ug/kg	ND	5.1	1.2	12/21/18 11:15	
o-Xylene	ug/kg	ND	5.1	1.9	12/21/18 11:15	
p-Isopropyltoluene	ug/kg	ND	5.1	1.7	12/21/18 11:15	
sec-Butylbenzene	ug/kg	ND	5.1	1.6	12/21/18 11:15	
Styrene	ug/kg	ND	5.1	1.8	12/21/18 11:15	
tert-Butylbenzene	ug/kg	ND	5.1	2.0	12/21/18 11:15	
Tetrachloroethene	ug/kg	ND	5.1	1.7	12/21/18 11:15	
Toluene	ug/kg	ND	5.1	1.8	12/21/18 11:15	
trans-1,2-Dichloroethene	ug/kg	ND	5.1	1.9	12/21/18 11:15	
trans-1,3-Dichloropropene	ug/kg	ND	5.1	1.5	12/21/18 11:15	
Trichloroethene	ug/kg	ND	5.1	2.1	12/21/18 11:15	
Trichlorofluoromethane	ug/kg	ND	5.1	2.2	12/21/18 11:15	
Vinyl acetate	ug/kg	ND	50.8	8.9	12/21/18 11:15	
Vinyl chloride	ug/kg	ND	10.2	1.8	12/21/18 11:15	
Xylene (Total)	ug/kg	ND	10.2	3.7	12/21/18 11:15	
1,2-Dichloroethane-d4 (S)	%	105	70-130		12/21/18 11:15	
4-Bromofluorobenzene (S)	%	90	70-130		12/21/18 11:15	
Toluene-d8 (S)	%	109	70-130		12/21/18 11:15	

LABORATORY CONTROL SAMPLE: 2459220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	53.1	48.6	92	70-130	
1,1,1-Trichloroethane	ug/kg	53.1	48.2	91	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	53.1	48.7	92	70-130	
1,1,2-Trichloroethane	ug/kg	53.1	51.8	98	70-130	
1,1-Dichloroethane	ug/kg	53.1	50.6	95	70-130	
1,1-Dichloroethene	ug/kg	53.1	55.4	104	70-130	
1,1-Dichloropropene	ug/kg	53.1	45.3	85	70-130	
1,2,3-Trichlorobenzene	ug/kg	53.1	54.6	103	70-130	
1,2,3-Trichloropropane	ug/kg	53.1	52.2	98	70-130	
1,2,4-Trichlorobenzene	ug/kg	53.1	55.2	104	70-130	
1,2,4-Trimethylbenzene	ug/kg	53.1	47.8	90	70-130	

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

LABORATORY CONTROL SAMPLE: 2459220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	53.1	55.0	104	70-130	
1,2-Dibromoethane (EDB)	ug/kg	53.1	49.4	93	70-130	
1,2-Dichlorobenzene	ug/kg	53.1	52.2	98	70-130	
1,2-Dichloroethane	ug/kg	53.1	49.5	93	70-130	
1,2-Dichloropropane	ug/kg	53.1	52.1	98	70-130	
1,3,5-Trimethylbenzene	ug/kg	53.1	49.4	93	70-130	
1,3-Dichlorobenzene	ug/kg	53.1	50.0	94	70-130	
1,3-Dichloropropane	ug/kg	53.1	51.2	96	70-130	
1,4-Dichlorobenzene	ug/kg	53.1	49.8	94	70-130	
2,2-Dichloropropane	ug/kg	53.1	48.4	91	70-130	
2-Butanone (MEK)	ug/kg	106	104J	98	70-130	
2-Chlorotoluene	ug/kg	53.1	50.7	95	70-130	
2-Hexanone	ug/kg	106	105	99	70-130	
4-Chlorotoluene	ug/kg	53.1	50.3	95	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	106	111	105	70-130	
Acetone	ug/kg	106	96.4J	91	70-130	
Benzene	ug/kg	53.1	49.5	93	70-130	
Bromobenzene	ug/kg	53.1	48.7	92	70-130	
Bromochloromethane	ug/kg	53.1	49.9	94	70-130	
Bromodichloromethane	ug/kg	53.1	54.0	102	70-130	
Bromoform	ug/kg	53.1	44.3	83	70-130	
Bromomethane	ug/kg	53.1	51.0	96	70-130	
Carbon tetrachloride	ug/kg	53.1	47.9	90	70-130	
Chlorobenzene	ug/kg	53.1	47.9	90	70-130	
Chloroethane	ug/kg	53.1	57.8	109	70-130	
Chloroform	ug/kg	53.1	49.1	93	70-130	
Chloromethane	ug/kg	53.1	50.9	96	70-130	
cis-1,2-Dichloroethene	ug/kg	53.1	52.7	99	70-130	
cis-1,3-Dichloropropene	ug/kg	53.1	56.7	107	70-130	
Dibromochloromethane	ug/kg	53.1	49.6	93	70-130	
Dibromomethane	ug/kg	53.1	52.7	99	70-130	
Dichlorodifluoromethane	ug/kg	53.1	46.3	87	70-130	
Diisopropyl ether	ug/kg	53.1	52.1	98	70-130	
Ethylbenzene	ug/kg	53.1	46.7	88	70-130	
Hexachloro-1,3-butadiene	ug/kg	53.1	51.2	96	70-130	
Isopropylbenzene (Cumene)	ug/kg	53.1	45.8	86	70-130	
m&p-Xylene	ug/kg	106	90.0	85	70-130	
Methyl-tert-butyl ether	ug/kg	53.1	52.2	98	70-130	
Methylene Chloride	ug/kg	53.1	51.3	97	70-130	
n-Butylbenzene	ug/kg	53.1	50.2	95	70-130	
n-Propylbenzene	ug/kg	53.1	48.6	92	70-130	
Naphthalene	ug/kg	53.1	56.6	107	70-130	
o-Xylene	ug/kg	53.1	45.8	86	70-130	
p-Isopropyltoluene	ug/kg	53.1	48.5	91	70-130	
sec-Butylbenzene	ug/kg	53.1	49.1	93	70-130	
Styrene	ug/kg	53.1	46.0	87	70-130	
tert-Butylbenzene	ug/kg	53.1	55.8	105	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

LABORATORY CONTROL SAMPLE: 2459220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	53.1	87.1	164	70-130	L1
Toluene	ug/kg	53.1	51.6	97	70-130	
trans-1,2-Dichloroethene	ug/kg	53.1	49.9	94	70-130	
trans-1,3-Dichloropropene	ug/kg	53.1	51.5	97	70-130	
Trichloroethene	ug/kg	53.1	48.9	92	70-130	
Trichlorofluoromethane	ug/kg	53.1	48.6	91	70-130	
Vinyl acetate	ug/kg	106	119	112	70-130	
Vinyl chloride	ug/kg	53.1	51.6	97	70-130	
Xylene (Total)	ug/kg	159	136	85	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			109	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2459221 2459222

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92411773007 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/kg	ND	18.4	19.6	15.7	18.1	85	93	70-130	14	30
1,1,1-Trichloroethane	ug/kg	ND	18.4	19.6	16.6	19.1	90	98	70-130	14	30
1,1,2,2-Tetrachloroethane	ug/kg	ND	18.4	19.6	16.2	16.6	88	85	70-130	2	30
1,1,2-Trichloroethane	ug/kg	ND	18.4	19.6	17.7	19.6	96	101	70-130	10	30
1,1-Dichloroethane	ug/kg	ND	18.4	19.6	17.2	20.6	94	106	70-130	18	30
1,1-Dichloroethene	ug/kg	ND	18.4	19.6	18.3	21.5	99	110	70-130	16	30
1,1-Dichloropropene	ug/kg	ND	18.4	19.6	14.4	17.1	78	87	70-130	17	30
1,2,3-Trichlorobenzene	ug/kg	ND	18.4	19.6	9.2	13.3	50	68	70-130	36	30 M1,R1
1,2,3-Trichloropropane	ug/kg	ND	18.4	19.6	13.1	14.2	71	73	70-130	8	30
1,2,4-Trichlorobenzene	ug/kg	ND	18.4	19.6	9.9	13.6	54	70	70-130	32	30 M1,R1
1,2,4-Trimethylbenzene	ug/kg	ND	18.4	19.6	13.0	15.2	71	78	70-130	16	30
1,2-Dibromo-3-chloropropane	ug/kg	ND	18.4	19.6	16.4	18.3	89	94	70-130	11	30
1,2-Dibromoethane (EDB)	ug/kg	ND	18.4	19.6	15.7	17.7	85	90	70-130	12	30
1,2-Dichlorobenzene	ug/kg	ND	18.4	19.6	13.4	16.8	73	86	70-130	23	30
1,2-Dichloroethane	ug/kg	ND	18.4	19.6	16.1	18.2	88	93	70-130	12	30
1,2-Dichloropropane	ug/kg	ND	18.4	19.6	16.8	18.9	92	97	70-130	12	30
1,3,5-Trimethylbenzene	ug/kg	ND	18.4	19.6	13.9	16.5	76	85	70-130	17	30
1,3-Dichlorobenzene	ug/kg	ND	18.4	19.6	13.0	16.5	71	84	70-130	24	30
1,3-Dichloropropane	ug/kg	ND	18.4	19.6	17.1	18.9	93	97	70-130	10	30
1,4-Dichlorobenzene	ug/kg	ND	18.4	19.6	12.7	16.1	69	82	70-130	23	30 M1
2,2-Dichloropropane	ug/kg	ND	18.4	19.6	16.4	18.5	89	95	70-130	12	30
2-Butanone (MEK)	ug/kg	ND	36.8	39	27.7J	30.5J	75	78	70-130		30
2-Chlorotoluene	ug/kg	ND	18.4	19.6	16.0	17.8	87	91	70-130	10	30
2-Hexanone	ug/kg	ND	36.8	39	22.4J	24.7J	61	63	70-130		30 M1
4-Chlorotoluene	ug/kg	ND	18.4	19.6	14.5	17.1	79	88	70-130	16	30
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	36.8	39	31.0J	33.7J	84	86	70-130		30
Acetone	ug/kg	ND	36.8	39	36.0J	37.2J	98	95	70-130		30

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2459221 2459222												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		92411773007	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Benzene	ug/kg	ND	18.4	19.6	16.4	18.8	89	97	70-130	14	30	
Bromobenzene	ug/kg	ND	18.4	19.6	16.7	18.2	91	93	70-130	9	30	
Bromochloromethane	ug/kg	ND	18.4	19.6	16.5	17.6	90	90	70-130	7	30	
Bromodichloromethane	ug/kg	ND	18.4	19.6	16.6	19.2	90	98	70-130	14	30	
Bromoform	ug/kg	ND	18.4	19.6	10.8	14.1	59	72	70-130	26	30	M1
Bromomethane	ug/kg	ND	18.4	19.6	15.6	16.4	85	84	70-130	5	30	
Carbon tetrachloride	ug/kg	ND	18.4	19.6	15.3	18.2	83	93	70-130	17	30	
Chlorobenzene	ug/kg	ND	18.4	19.6	14.5	17.4	79	89	70-130	18	30	
Chloroethane	ug/kg	ND	18.4	19.6	15.6	16.0	85	82	70-130	3	30	
Chloroform	ug/kg	ND	18.4	19.6	17.3	19.8	94	101	70-130	13	30	
Chloromethane	ug/kg	ND	18.4	19.6	16.2	17.5	88	90	70-130	8	30	
cis-1,2-Dichloroethene	ug/kg	ND	18.4	19.6	16.2	18.4	88	94	70-130	13	30	
cis-1,3-Dichloropropene	ug/kg	ND	18.4	19.6	15.5	18.2	84	93	70-130	16	30	
Dibromochloromethane	ug/kg	ND	18.4	19.6	15.2	17.8	83	91	70-130	16	30	
Dibromomethane	ug/kg	ND	18.4	19.6	15.3	17.9	83	92	70-130	16	30	
Dichlorodifluoromethane	ug/kg	ND	18.4	19.6	14.5	16.3	79	84	70-130	12	30	
Diisopropyl ether	ug/kg	ND	18.4	19.6	17.9	20.1	97	103	70-130	12	30	
Ethylbenzene	ug/kg	ND	18.4	19.6	14.6	17.3	79	89	70-130	17	30	
Hexachloro-1,3-butadiene	ug/kg	ND	18.4	19.6	9.7	13.6	53	70	70-130	34	30	M1,R1
Isopropylbenzene (Cumene)	ug/kg	ND	18.4	19.6	13.3	14.4	73	74	70-130	7	30	
m&p-Xylene	ug/kg	ND	36.8	39	27.4	31.4	75	80	70-130	13	30	
Methyl-tert-butyl ether	ug/kg	ND	18.4	19.6	16.4	18.3	89	94	70-130	11	30	
Methylene Chloride	ug/kg	ND	18.4	19.6	16.0J	15.8J	87	81	70-130		30	
n-Butylbenzene	ug/kg	ND	18.4	19.6	11.8	14.7	64	75	70-130	22	30	M1
n-Propylbenzene	ug/kg	ND	18.4	19.6	16.8	17.9	91	92	70-130	7	30	
Naphthalene	ug/kg	ND	18.4	19.6	9.9	12.9	54	66	70-130	27	30	M1
o-Xylene	ug/kg	ND	18.4	19.6	12.5	15.7	68	80	70-130	23	30	M1
p-Isopropyltoluene	ug/kg	ND	18.4	19.6	11.0	13.4	60	69	70-130	20	30	M1
sec-Butylbenzene	ug/kg	ND	18.4	19.6	13.7	16.6	74	85	70-130	20	30	
Styrene	ug/kg	ND	18.4	19.6	10.9	14.9	59	76	70-130	31	30	M1,R1
tert-Butylbenzene	ug/kg	ND	18.4	19.6	14.7	17.4	80	89	70-130	16	30	
Tetrachloroethene	ug/kg	ND	18.4	19.6	9.2	10.6	50	54	70-130	14	30	M0
Toluene	ug/kg	ND	18.4	19.6	15.8	18.8	86	96	70-130	17	30	
trans-1,2-Dichloroethene	ug/kg	ND	18.4	19.6	17.0	19.6	93	100	70-130	14	30	
trans-1,3-Dichloropropene	ug/kg	ND	18.4	19.6	14.7	18.0	80	92	70-130	20	30	
Trichloroethene	ug/kg	ND	18.4	19.6	13.6	15.9	74	81	70-130	16	30	
Trichlorofluoromethane	ug/kg	ND	18.4	19.6	17.1	19.7	93	101	70-130	14	30	
Vinyl acetate	ug/kg	ND	36.8	39	17.7J	30.0J	48	77	70-130		30	M1
Vinyl chloride	ug/kg	ND	18.4	19.6	17.5	19.1	95	98	70-130	9	30	
Xylene (Total)	ug/kg	ND	55.2	58.6	39.9	47.1	72	80	70-130	16	30	MS
1,2-Dichloroethane-d4 (S)	%						97	94	70-130			
4-Bromofluorobenzene (S)	%						93	87	70-130			
Toluene-d8 (S)	%						108	107	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

QC Batch: 449206 Analysis Method: EPA 8270D
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave SC
Associated Lab Samples: 92411773001, 92411773002, 92411773003, 92411773004, 92411773005, 92411773006, 92411773007

METHOD BLANK: 2460018 Matrix: Solid
Associated Lab Samples: 92411773001, 92411773002, 92411773003, 92411773004, 92411773005, 92411773006, 92411773007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	328	63.6	12/24/18 11:43	
1,2-Dichlorobenzene	ug/kg	ND	328	87.4	12/24/18 11:43	
1,3-Dichlorobenzene	ug/kg	ND	328	74.5	12/24/18 11:43	
1,4-Dichlorobenzene	ug/kg	ND	328	92.4	12/24/18 11:43	
1-Methylnaphthalene	ug/kg	ND	328	85.4	12/24/18 11:43	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	328	87.4	12/24/18 11:43	
2,4,5-Trichlorophenol	ug/kg	ND	328	101	12/24/18 11:43	
2,4,6-Trichlorophenol	ug/kg	ND	328	72.5	12/24/18 11:43	
2,4-Dichlorophenol	ug/kg	ND	328	71.5	12/24/18 11:43	
2,4-Dimethylphenol	ug/kg	ND	328	129	12/24/18 11:43	
2,4-Dinitrophenol	ug/kg	ND	1640	53.6	12/24/18 11:43	
2,4-Dinitrotoluene	ug/kg	ND	328	61.6	12/24/18 11:43	
2,6-Dinitrotoluene	ug/kg	ND	328	68.5	12/24/18 11:43	
2-Chloronaphthalene	ug/kg	ND	328	64.6	12/24/18 11:43	
2-Chlorophenol	ug/kg	ND	328	89.4	12/24/18 11:43	
2-Methylnaphthalene	ug/kg	ND	328	70.5	12/24/18 11:43	
2-Methylphenol(o-Cresol)	ug/kg	ND	328	99.3	12/24/18 11:43	
2-Nitroaniline	ug/kg	ND	1640	101	12/24/18 11:43	
2-Nitrophenol	ug/kg	ND	328	79.5	12/24/18 11:43	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	328	129	12/24/18 11:43	
3,3'-Dichlorobenzidine	ug/kg	ND	1640	71.5	12/24/18 11:43	
3-Nitroaniline	ug/kg	ND	1640	89.4	12/24/18 11:43	
4,6-Dinitro-2-methylphenol	ug/kg	ND	656	65.6	12/24/18 11:43	
4-Bromophenylphenyl ether	ug/kg	ND	328	59.6	12/24/18 11:43	
4-Chloro-3-methylphenol	ug/kg	ND	656	67.5	12/24/18 11:43	
4-Chloroaniline	ug/kg	ND	1640	91.4	12/24/18 11:43	
4-Chlorophenylphenyl ether	ug/kg	ND	328	67.5	12/24/18 11:43	
4-Nitroaniline	ug/kg	ND	656	92.4	12/24/18 11:43	
4-Nitrophenol	ug/kg	ND	1640	58.6	12/24/18 11:43	
Acenaphthene	ug/kg	ND	328	75.5	12/24/18 11:43	
Acenaphthylene	ug/kg	ND	328	77.5	12/24/18 11:43	
Aniline	ug/kg	ND	328	88.4	12/24/18 11:43	
Anthracene	ug/kg	ND	328	73.5	12/24/18 11:43	
Benzo(a)anthracene	ug/kg	ND	328	60.6	12/24/18 11:43	
Benzo(a)pyrene	ug/kg	ND	328	62.6	12/24/18 11:43	
Benzo(b)fluoranthene	ug/kg	ND	328	56.6	12/24/18 11:43	
Benzo(g,h,i)perylene	ug/kg	ND	328	83.4	12/24/18 11:43	
Benzo(k)fluoranthene	ug/kg	ND	328	64.6	12/24/18 11:43	
Benzoic Acid	ug/kg	ND	1640	59.6	12/24/18 11:43	
Benzyl alcohol	ug/kg	ND	656	65.6	12/24/18 11:43	
bis(2-Chloroethoxy)methane	ug/kg	ND	328	76.5	12/24/18 11:43	

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

METHOD BLANK: 2460018

Matrix: Solid

Associated Lab Samples: 92411773001, 92411773002, 92411773003, 92411773004, 92411773005, 92411773006, 92411773007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/kg	ND	328	83.4	12/24/18 11:43	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	328	89.4	12/24/18 11:43	
Butylbenzylphthalate	ug/kg	ND	328	69.5	12/24/18 11:43	
Chrysene	ug/kg	ND	328	43.7	12/24/18 11:43	
Di-n-butylphthalate	ug/kg	ND	328	53.6	12/24/18 11:43	
Di-n-octylphthalate	ug/kg	ND	328	68.5	12/24/18 11:43	
Dibenz(a,h)anthracene	ug/kg	ND	328	69.5	12/24/18 11:43	
Dibenzofuran	ug/kg	ND	328	53.6	12/24/18 11:43	
Diethylphthalate	ug/kg	ND	328	50.7	12/24/18 11:43	
Dimethylphthalate	ug/kg	ND	328	66.6	12/24/18 11:43	
Fluoranthene	ug/kg	ND	328	47.7	12/24/18 11:43	
Fluorene	ug/kg	ND	328	67.5	12/24/18 11:43	
Hexachloro-1,3-butadiene	ug/kg	ND	328	56.6	12/24/18 11:43	
Hexachlorobenzene	ug/kg	ND	328	41.7	12/24/18 11:43	
Hexachlorocyclopentadiene	ug/kg	ND	328	60.6	12/24/18 11:43	
Hexachloroethane	ug/kg	ND	328	86.4	12/24/18 11:43	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	328	67.5	12/24/18 11:43	
Isophorone	ug/kg	ND	328	73.5	12/24/18 11:43	
N-Nitroso-di-n-propylamine	ug/kg	ND	328	62.6	12/24/18 11:43	
N-Nitrosodimethylamine	ug/kg	ND	328	106	12/24/18 11:43	
N-Nitrosodiphenylamine	ug/kg	ND	328	97.4	12/24/18 11:43	
Naphthalene	ug/kg	ND	328	80.5	12/24/18 11:43	
Nitrobenzene	ug/kg	ND	328	89.4	12/24/18 11:43	
Pentachlorophenol	ug/kg	ND	1640	59.6	12/24/18 11:43	
Phenanthrene	ug/kg	ND	328	54.6	12/24/18 11:43	
Phenol	ug/kg	ND	328	98.3	12/24/18 11:43	
Pyrene	ug/kg	ND	328	55.6	12/24/18 11:43	
2,4,6-Tribromophenol (S)	%	73	27-110		12/24/18 11:43	
2-Fluorobiphenyl (S)	%	65	30-110		12/24/18 11:43	
2-Fluorophenol (S)	%	57	13-110		12/24/18 11:43	
Nitrobenzene-d5 (S)	%	61	23-110		12/24/18 11:43	
Phenol-d6 (S)	%	55	22-110		12/24/18 11:43	
Terphenyl-d14 (S)	%	71	28-110		12/24/18 11:43	

LABORATORY CONTROL SAMPLE: 2460019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1690	1310	78	70-130	
1,2-Dichlorobenzene	ug/kg	1690	1150	68	70-130	
1,3-Dichlorobenzene	ug/kg	1690	1150	68	70-130	
1,4-Dichlorobenzene	ug/kg	1690	1220	72	70-130	
1-Methylnaphthalene	ug/kg	1690	1330	79	70-130	
2,2'-Oxybis(1-chloropropane)	ug/kg	1690	949	56	70-130	
2,4,5-Trichlorophenol	ug/kg	1690	1270	75	70-130	

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

LABORATORY CONTROL SAMPLE: 2460019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/kg	1690	1330	79	70-130	
2,4-Dichlorophenol	ug/kg	1690	1280	76	70-130	
2,4-Dimethylphenol	ug/kg	1690	1180	70	70-130	
2,4-Dinitrophenol	ug/kg	8450	6730	80	28-103	
2,4-Dinitrotoluene	ug/kg	1690	1400	83	70-130	
2,6-Dinitrotoluene	ug/kg	1690	1370	81	70-130	
2-Chloronaphthalene	ug/kg	1690	1240	73	70-130	
2-Chlorophenol	ug/kg	1690	1150	68	70-130	
2-Methylnaphthalene	ug/kg	1690	1340	79	70-130	
2-Methylphenol(o-Cresol)	ug/kg	1690	1090	64	70-130	
2-Nitroaniline	ug/kg	3380	2300	68	70-130	
2-Nitrophenol	ug/kg	1690	1320	78	70-130	
3&4-Methylphenol(m&p Cresol)	ug/kg	1690	1050	62	70-130	
3,3'-Dichlorobenzidine	ug/kg	3380	2130	63	50-150	
3-Nitroaniline	ug/kg	3380	2170	64	35-110	
4,6-Dinitro-2-methylphenol	ug/kg	3380	3030	90	70-130	
4-Bromophenylphenyl ether	ug/kg	1690	1380	82	70-130	
4-Chloro-3-methylphenol	ug/kg	3380	2550	75	70-130	
4-Chloroaniline	ug/kg	3380	2160	64	70-130	
4-Chlorophenylphenyl ether	ug/kg	1690	1390	82	70-130	
4-Nitroaniline	ug/kg	3380	2470	73	70-130	
4-Nitrophenol	ug/kg	8450	6620	78	70-130	
Acenaphthene	ug/kg	1690	1320	78	70-130	
Acenaphthylene	ug/kg	1690	1420	84	70-130	
Aniline	ug/kg	1690	976	58	29-110	
Anthracene	ug/kg	1690	1370	81	70-130	
Benzo(a)anthracene	ug/kg	1690	1370	81	70-130	
Benzo(a)pyrene	ug/kg	1690	1410	84	70-130	
Benzo(b)fluoranthene	ug/kg	1690	1370	81	70-130	
Benzo(g,h,i)perylene	ug/kg	1690	1440	85	70-130	
Benzo(k)fluoranthene	ug/kg	1690	1380	82	70-130	
Benzoic Acid	ug/kg	8450	5420	64	16-110	
Benzyl alcohol	ug/kg	3380	2190	65	70-130	
bis(2-Chloroethoxy)methane	ug/kg	1690	1190	71	70-130	
bis(2-Chloroethyl) ether	ug/kg	1690	1080	64	70-130	
bis(2-Ethylhexyl)phthalate	ug/kg	1690	1210	72	70-130	
Butylbenzylphthalate	ug/kg	1690	1210	72	70-130	
Chrysene	ug/kg	1690	1330	79	70-130	
Di-n-butylphthalate	ug/kg	1690	1290	76	70-130	
Di-n-octylphthalate	ug/kg	1690	1300	77	70-130	
Dibenz(a,h)anthracene	ug/kg	1690	1440	86	70-130	
Dibenzofuran	ug/kg	1690	1280	76	70-130	
Diethylphthalate	ug/kg	1690	1310	78	70-130	
Dimethylphthalate	ug/kg	1690	1310	78	70-130	
Fluoranthene	ug/kg	1690	1520	90	70-130	
Fluorene	ug/kg	1690	1410	83	70-130	
Hexachloro-1,3-butadiene	ug/kg	1690	1380	82	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

LABORATORY CONTROL SAMPLE: 2460019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	ug/kg	1690	1390	82	70-130	
Hexachlorocyclopentadiene	ug/kg	1690	1330	79	70-130	
Hexachloroethane	ug/kg	1690	1190	70	70-130	
Indeno(1,2,3-cd)pyrene	ug/kg	1690	1470	87	70-130	
Isophorone	ug/kg	1690	1100	65	70-130	
N-Nitroso-di-n-propylamine	ug/kg	1690	1090	65	70-130	
N-Nitrosodimethylamine	ug/kg	1690	1060	63	70-130	
N-Nitrosodiphenylamine	ug/kg	1690	1250	74	70-130	
Naphthalene	ug/kg	1690	1290	77	70-130	
Nitrobenzene	ug/kg	1690	1210	72	70-130	
Pentachlorophenol	ug/kg	3380	2680	79	70-130	
Phenanthrene	ug/kg	1690	1360	81	70-130	
Phenol	ug/kg	1690	1170	69	70-130	2g
Pyrene	ug/kg	1690	1310	77	70-130	
2,4,6-Tribromophenol (S)	%			87	27-110	
2-Fluorobiphenyl (S)	%			71	30-110	
2-Fluorophenol (S)	%			65	13-110	
Nitrobenzene-d5 (S)	%			68	23-110	
Phenol-d6 (S)	%			63	22-110	
Terphenyl-d14 (S)	%			68	28-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2460020 2460021

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92411773007 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2,4-Trichlorobenzene	ug/kg	ND	2110	2060	1520	1510	72	73	70-130	1	30	
1,2-Dichlorobenzene	ug/kg	ND	2110	2060	1390	1330	66	65	70-130	4	30	
1,3-Dichlorobenzene	ug/kg	ND	2110	2060	1330	1280	63	62	70-130	4	30	
1,4-Dichlorobenzene	ug/kg	ND	2110	2060	1410	1350	67	65	70-130	5	30	
1-Methylnaphthalene	ug/kg	ND	2110	2060	1600	1530	76	74	70-130	4	30	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	2110	2060	1140	1120	54	54	70-130	1	30	
2,4,5-Trichlorophenol	ug/kg	ND	2110	2060	1470	1470	69	71	70-130	0	30	
2,4,6-Trichlorophenol	ug/kg	ND	2110	2060	1640	1590	78	77	70-130	3	30	
2,4-Dichlorophenol	ug/kg	ND	2110	2060	1550	1550	73	75	70-130	0	30	
2,4-Dimethylphenol	ug/kg	ND	2110	2060	1210	1180	57	57	70-130	2	30	
2,4-Dinitrophenol	ug/kg	ND	10600	10300	1180J	982J	11	10	70-130		30	
2,4-Dinitrotoluene	ug/kg	ND	2110	2060	1150	1050	54	51	70-130	9	30	
2,6-Dinitrotoluene	ug/kg	ND	2110	2060	1330	1260	63	61	70-130	6	30	
2-Chloronaphthalene	ug/kg	ND	2110	2060	1460	1410	69	69	70-130	3	30	
2-Chlorophenol	ug/kg	ND	2110	2060	1360	1340	65	65	70-130	2	30	
2-Methylnaphthalene	ug/kg	ND	2110	2060	1650	1560	78	76	70-130	5	30	
2-Methylphenol(o-Cresol)	ug/kg	ND	2110	2060	1220	1190	58	58	70-130	2	30	
2-Nitroaniline	ug/kg	ND	4230	4130	2460	2480	58	60	70-130	1	30	
2-Nitrophenol	ug/kg	ND	2110	2060	1380	1290	65	62	70-130	7	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Parameter	Units	2460020		2460021		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92411773007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	2110	2060	1170	1160	56	56	70-130	1	30
3,3'-Dichlorobenzidine	ug/kg	ND	4230	4130	1840J	1920J	44	47	70-130		30
3-Nitroaniline	ug/kg	ND	4230	4130	2320	2300	55	56	70-130	1	30
4,6-Dinitro-2-methylphenol	ug/kg	ND	4230	4130	493J	335J	12	8	70-130		30
4-Bromophenylphenyl ether	ug/kg	ND	2110	2060	1750	1700	83	82	70-130	3	30
4-Chloro-3-methylphenol	ug/kg	ND	4230	4130	2840	2850	67	69	70-130	0	30
4-Chloroaniline	ug/kg	ND	4230	4130	2020J	2050	48	50	70-130		30
4-Chlorophenylphenyl ether	ug/kg	ND	2110	2060	1470	1430	70	69	70-130	3	30
4-Nitroaniline	ug/kg	ND	4230	4130	2180	2260	52	55	70-130	3	30
4-Nitrophenol	ug/kg	ND	10600	10300	5910	5780	56	56	70-130	2	30
Acenaphthene	ug/kg	ND	2110	2060	1550	1470	74	71	70-130	6	30
Acenaphthylene	ug/kg	106J	2110	2060	1950	1540	87	70	70-130	24	30
Aniline	ug/kg	ND	2110	2060	752	759	36	37	70-130	1	30
Anthracene	ug/kg	167J	2110	2060	2120	1530	93	66	70-130	32	30
Benzo(a)anthracene	ug/kg	503	2110	2060	3570	1760	145	61	70-130	68	30
Benzo(a)pyrene	ug/kg	435	2110	2060	3370	1680	139	60	70-130	67	30
Benzo(b)fluoranthene	ug/kg	562	2110	2060	3950	1960	161	68	70-130	67	30
Benzo(g,h,i)perylene	ug/kg	183J	2110	2060	1710	1080	72	43	70-130	45	30
Benzo(k)fluoranthene	ug/kg	236J	2110	2060	2710	1680	117	70	70-130	47	30
Benzoic Acid	ug/kg	ND	10600	10300	839J	708J	8	7	70-130		30
Benzyl alcohol	ug/kg	ND	4230	4130	2480	2450	59	59	70-130	1	30
bis(2-Chloroethoxy)methane	ug/kg	ND	2110	2060	1340	1330	63	64	70-130	1	30
bis(2-Chloroethyl) ether	ug/kg	ND	2110	2060	1290	1270	61	61	70-130	2	30
bis(2-Ethylhexyl)phthalate	ug/kg	ND	2110	2060	1500	1460	71	71	70-130	2	30
Butylbenzylphthalate	ug/kg	ND	2110	2060	1370	1440	65	70	70-130	5	30
Chrysene	ug/kg	490	2110	2060	3350	1740	135	61	70-130	63	30
Di-n-butylphthalate	ug/kg	ND	2110	2060	1370	1320	65	64	70-130	3	30
Di-n-octylphthalate	ug/kg	ND	2110	2060	1520	1520	72	74	70-130	0	30
Dibenz(a,h)anthracene	ug/kg	ND	2110	2060	1360	1190	64	58	70-130	13	30
Dibenzofuran	ug/kg	ND	2110	2060	1520	1370	72	66	70-130	10	30
Diethylphthalate	ug/kg	ND	2110	2060	1410	1400	67	68	70-130	0	30
Dimethylphthalate	ug/kg	ND	2110	2060	1460	1440	69	70	70-130	1	30
Fluoranthene	ug/kg	822	2110	2060	4970	1650	196	40	70-130	100	30
Fluorene	ug/kg	ND	2110	2060	1630	1450	77	70	70-130	12	30
Hexachloro-1,3-butadiene	ug/kg	ND	2110	2060	1670	1580	79	77	70-130	5	30
Hexachlorobenzene	ug/kg	ND	2110	2060	1700	1700	80	82	70-130	0	30
Hexachlorocyclopentadiene	ug/kg	ND	2110	2060	90.8J	77.9J	4	4	70-130		30
Hexachloroethane	ug/kg	ND	2110	2060	1050	923	50	45	70-130	13	30
Indeno(1,2,3-cd)pyrene	ug/kg	186J	2110	2060	1800	1190	76	48	70-130	41	30
Isophorone	ug/kg	ND	2110	2060	1260	1220	60	59	70-130	3	30
N-Nitroso-di-n-propylamine	ug/kg	ND	2110	2060	1280	1250	61	61	70-130	3	30
N-Nitrosodimethylamine	ug/kg	ND	2110	2060	966	953	46	46	70-130	1	30
N-Nitrosodiphenylamine	ug/kg	ND	2110	2060	1640	1590	78	77	70-130	3	30
Naphthalene	ug/kg	ND	2110	2060	1660	1520	77	71	70-130	9	30
Nitrobenzene	ug/kg	ND	2110	2060	1390	1330	66	64	70-130	5	30

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QUALITY CONTROL DATA

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Parameter	Units	2460020		2460021		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Pentachlorophenol	ug/kg	ND	4230	4130	2800	2800	66	68	70-130	0	30	
Phenanthrene	ug/kg	217J	2110	2060	2810	1660	123	70	70-130	51	30	
Phenol	ug/kg	ND	2110	2060	1280	1250	61	61	70-130	2	30	1g
Pyrene	ug/kg	791	2110	2060	5000	2000	199	58	70-130	86	30	
2,4,6-Tribromophenol (S)	%						86	89	27-110			
2-Fluorobiphenyl (S)	%						62	63	30-110			
2-Fluorophenol (S)	%						54	53	13-110			
Nitrobenzene-d5 (S)	%						61	61	23-110			
Phenol-d6 (S)	%						57	56	22-110			
Terphenyl-d14 (S)	%						56	64	28-110			

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QUALIFIERS

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
	Footnote applies to all recoveries exceeding QC limits.
2g	Recovery did not meet 70-130% South Carolina required limits. Recovery meets method required in-house generated control limits.
	Footnote applies to all recoveries less than 70%.
H1	Analysis conducted outside the EPA method holding time.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Bramlette MGP J18120519

Pace Project No.: 92411773

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92411773001	SW-7-SED	EPA 3546	449206	EPA 8270D	449373
92411773002	SW-8-SED	EPA 3546	449206	EPA 8270D	449373
92411773003	SW-9-SED	EPA 3546	449206	EPA 8270D	449373
92411773004	SW-10-SED	EPA 3546	449206	EPA 8270D	449373
92411773005	SW-11-SED	EPA 3546	449206	EPA 8270D	449373
92411773006	SW-DUP1-SED	EPA 3546	449206	EPA 8270D	449373
92411773007	SW-12 MS/MSD-SED	EPA 3546	449206	EPA 8270D	449373
92411773001	SW-7-SED	EPA 5035A	449048	EPA 8260B	449080
92411773002	SW-8-SED	EPA 5035A	449048	EPA 8260B	449080
92411773003	SW-9-SED	EPA 5035A	449048	EPA 8260B	449080
92411773004	SW-10-SED	EPA 5035A	449048	EPA 8260B	449080
92411773005	SW-11-SED	EPA 5035A	449048	EPA 8260B	449080
92411773006	SW-DUP1-SED	EPA 5035A	449048	EPA 8260B	449080
92411773007	SW-12 MS/MSD-SED	EPA 5035A	449048	EPA 8260B	449080
92411773001	SW-7-SED	ASTM D2974-87	449178		
92411773002	SW-8-SED	ASTM D2974-87	449178		
92411773003	SW-9-SED	ASTM D2974-87	449178		
92411773004	SW-10-SED	ASTM D2974-87	449178		
92411773005	SW-11-SED	ASTM D2974-87	449178		
92411773006	SW-DUP1-SED	ASTM D2974-87	449178		
92411773007	SW-12 MS/MSD-SED	ASTM D2974-87	449178		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

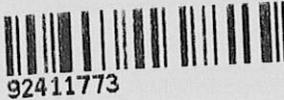
Sample Condition Upon Receipt

Client Name:

Synterra

Project #

WO#: 92411773



92411773

Date/Initials Person Examining Contents: *12/20 AR*

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: *93-T046* Type of Ice: Wet Blue None

Biological Tissue Frozen? Yes No N/A

Cooler Temp (°C): *5.4/4.8/5.5* Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): *5.4/4.8/5.5*

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.	<i>Two extra samples.</i>
-Includes Date/Time/ID/Analysis Matrix: <i>SL</i>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	<i>Soils</i>
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Client has two extra sample sets that are not on the COC. These samples are SW-DUP 1 and SW-12 MS/MSD. Please read the bottle sheet.

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project #

WO# : 92411773

PM: KLH1

Due Date: 12/28/18

CLIENT: 92-Duke Ener

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																														
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Synterra	Report To:	Heather Smith	Attention:	
Address:	148 River street	Copy To:		Company Name:	
Site:	220, Greenville, SC 29601	Purchase Order #:		Address:	
Phone:		Project Name:	Former Bramlette MGP Site	Pace Office:	
Fax:		Project #:		Pace Project Manager:	kevin.herring@pacelabs.com
Requested Due Date:				Pace Profile #:	7754
			Regulatory Agency		
			State / Location		
			SC		

Page: 1 Of 1

ITEM #	MATRIX CODE (see vstd codes to RH)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST Y/N	TRIP BLANK	RESIDUAL CHLORINE (Y/N)	
			START DATE	END DATE		H2SO4	HNO3	HCl	NaOH	Na2S2O3	Metalhand	Other				
1	SW-7 - SED	SLG	12-18-12	1430	2											92411778
2	SW-8 - SED			1400	2											001
3	SW-9 - SED			1325	1											002
4	SW-10 - SED			1250	1											003
5	SW-11 - SED			1145	1											004
6	SW-12 - SED MS/MSDU			1030	8											005
7	SW-DUP 1 - SED															007 - MS/MSDU
8																006 - dupl
9																
10																
11																
12																

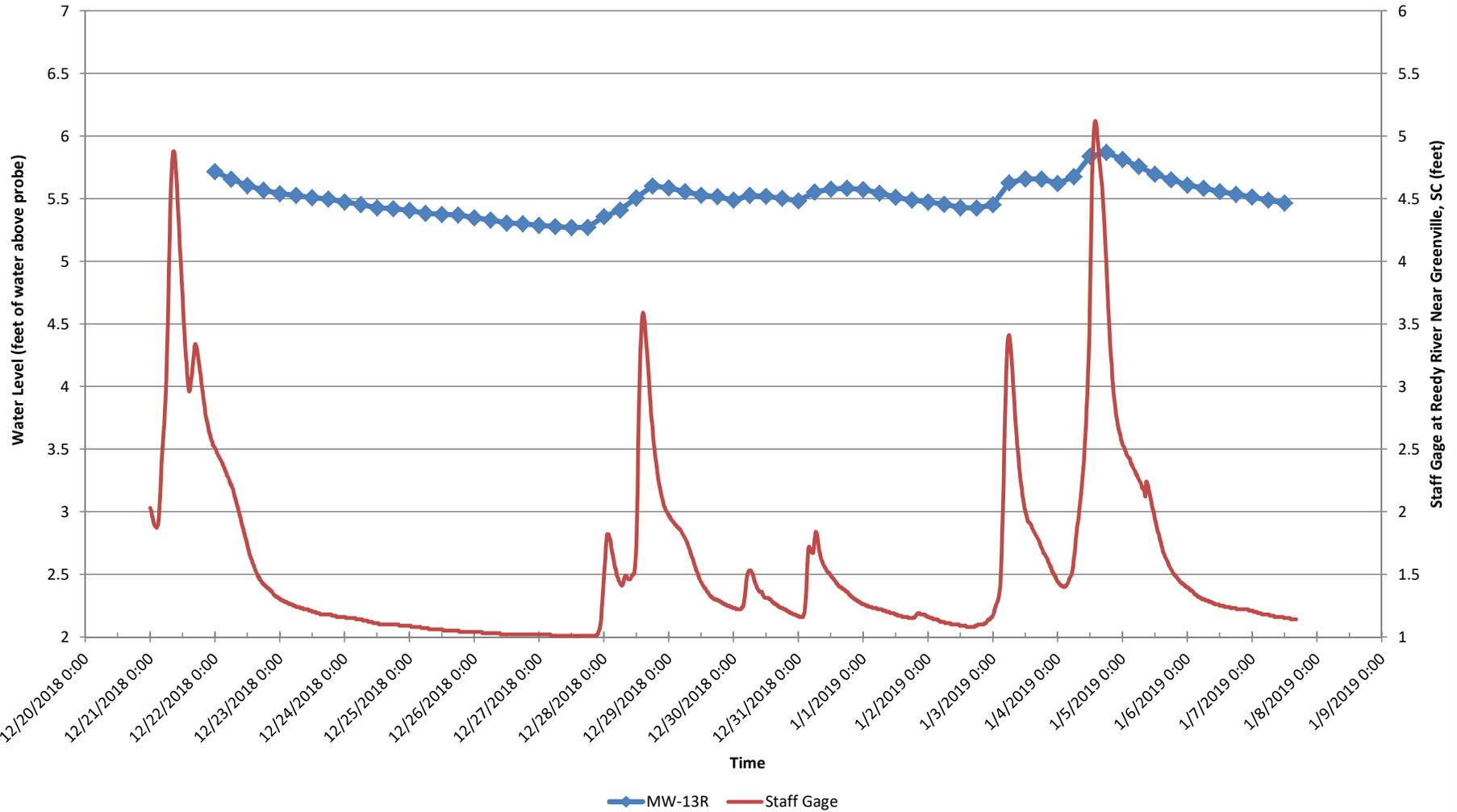
ADDITIONAL COMMENTS	REQUISITIONED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[Signature]	12/18/12	1505	[Signature]	12-20-12	1115	
	[Signature]	12-20-12	1510	[Signature]	12-20-12	1510	

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on	Custody	Sealed	Cooler	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Brian Spilkey</i>							
SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed: 12-19-12					

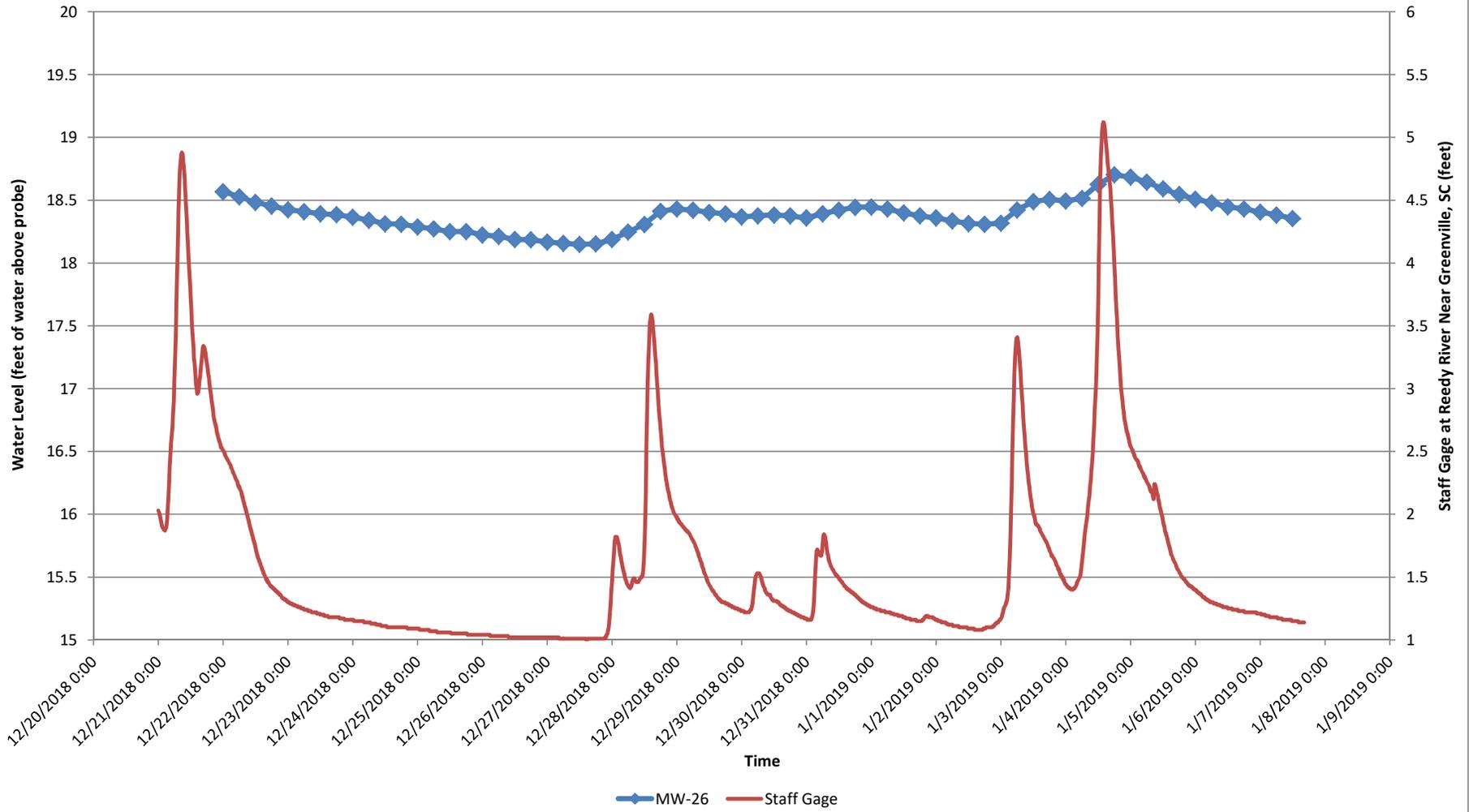
ATTACHMENT G

Hydrographs

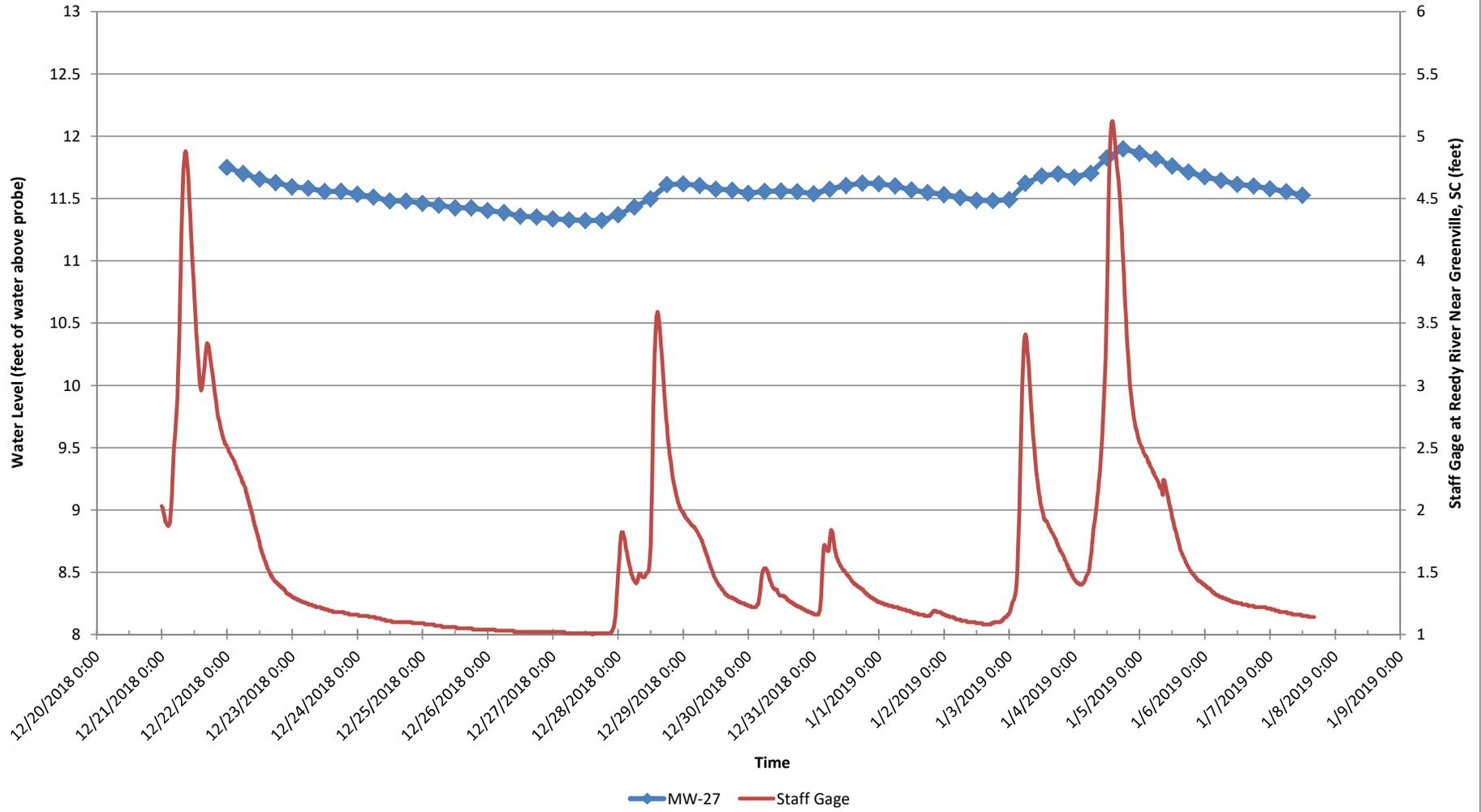
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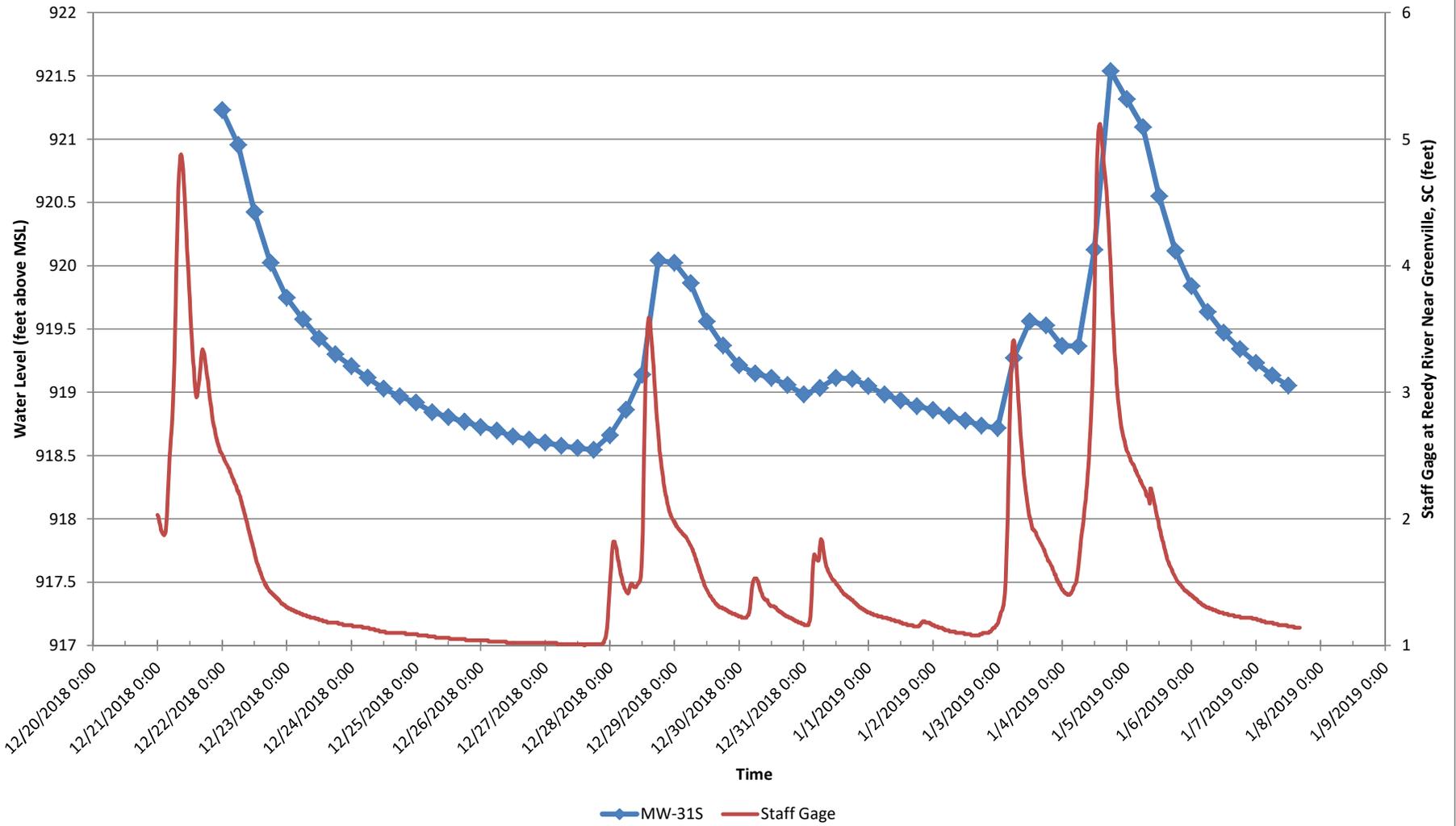
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MW-27



MW-31S



MW-31TZ

