GeoLogic NY, P.C.
P. O. Box 350 • 37 Copeland Ave. • Homer, NY 13077 • 607-749-5000

September 27, 2019

Mr. Chris Petrillose
Visum Development Group
119 South Cayuga Street
Ithaca, New York 14850

Reference: Subsurface Evaluation
110 Cherry Street
Ithaca, New York

Dear Mr. Petrillose:

This report summarizes the results of the Subsurface Evaluation conducted at the above referenced site.

Scope of Work

The Property is part of a larger parcel that is currently utilized as a scrapyard. To evaluate what, if any impact the scrapyard has had on the soil and groundwater quality at the Property, the following scope of work was performed:

- Notified Dig Safely New York to have the public utilities marked prior to the start of the field work;
- Advanced four (4) direct push sample probes (Geoprobe ®). The sampling probes were positioned to provide spatial coverage of the site. The sampling probes were advanced to depths of 15 to 20 feet each;
- The recovered soil samples were visually classified and screened with a photoionization detector (PID) for the possible presence of volatile organic compounds (VOCs).
- Selected samples collected from each of the direct push sample points were submitted for laboratory analysis for VOCs by EPA Method 8260 (Target Compound List (TCL) and semi-volatile organic compounds (SVOCs) by EPA Method 8270 (NYSDEC CP-51 parameters).
- Established the locations of the sampling probes relative to the existing site features.

Findings

On September 9, 2019, four direct push sampling probes were advanced at the site. The locations are indicated on Drawing No. 1.

The soils encountered consisted of fill overlying predominately silt and clay soils. Groundwater was encountered at depths of 6 to 18 feet below the ground surface. Note: the fine-grained nature

GeoLogic

of the native soils limits the rate of water entry into the sampling tools. Given the proximity of the site to Cayuga Inlet, the water levels observed in DP-2, DP-3 and DP-4 are likely more representative of the actual depth to water (less than 10 feet) than that observed in DP-1 (18 feet).

The recovered soil samples were screened with a hand-held photoionization detector (PID) for the possible presence of volatile organic compounds. All PID readings were 0.0 parts per million.

Groundwater samples were obtained from each location. The samples were obtained using a peristaltic pump. New polyethylene tubing was used at each location. The samples were placed directly in the sample containers provided by the analytical laboratory and immediately placed on ice. The samples were analyzed for volatile organic compounds (Target Compound List) using EPA Method 8260 and EPA Method 8270 for NYSDEC CP-51 semi-volatile organic compounds. The results are attached. There was insufficient water at DP-1 for an EPA 8270 analysis, thus a soil sample from a depth of 11 feet was analyzed.

Several of the target analytes were detected in the samples; however only the following compounds were detected at concentrations in excess of the NYSDEC allowable limits:

Location	Analyte	Concentration (ug/L)	Limit (ug/L)
DP-1	Vinyl Chloride	6.3	0.3
	cis-1,2-Dichloroethene	986	5
DP-2	Naphthalene	15.1	10
	Vinyl Chloride	2.3	0.3
	cis-1,2-Dichloroethene	92.9	5

The source of the contaminants detected is unclear at this time. cis-1,2 Dichloroethane typically occurs as a breakdown product associated with the degradation of TCE (Trichloroethylene) and/or PCE (Perchloroethylene) both of which are chlorinated solvents. PCE is also known as dry cleaning fluid. TCE is a common degreasing solvent. Vinyl Chloride is typically a breakdown product of cis-1,2 dichloroethane.

If you have any questions concerning this report, please do not hesitate to call us at (607) 749-5000.

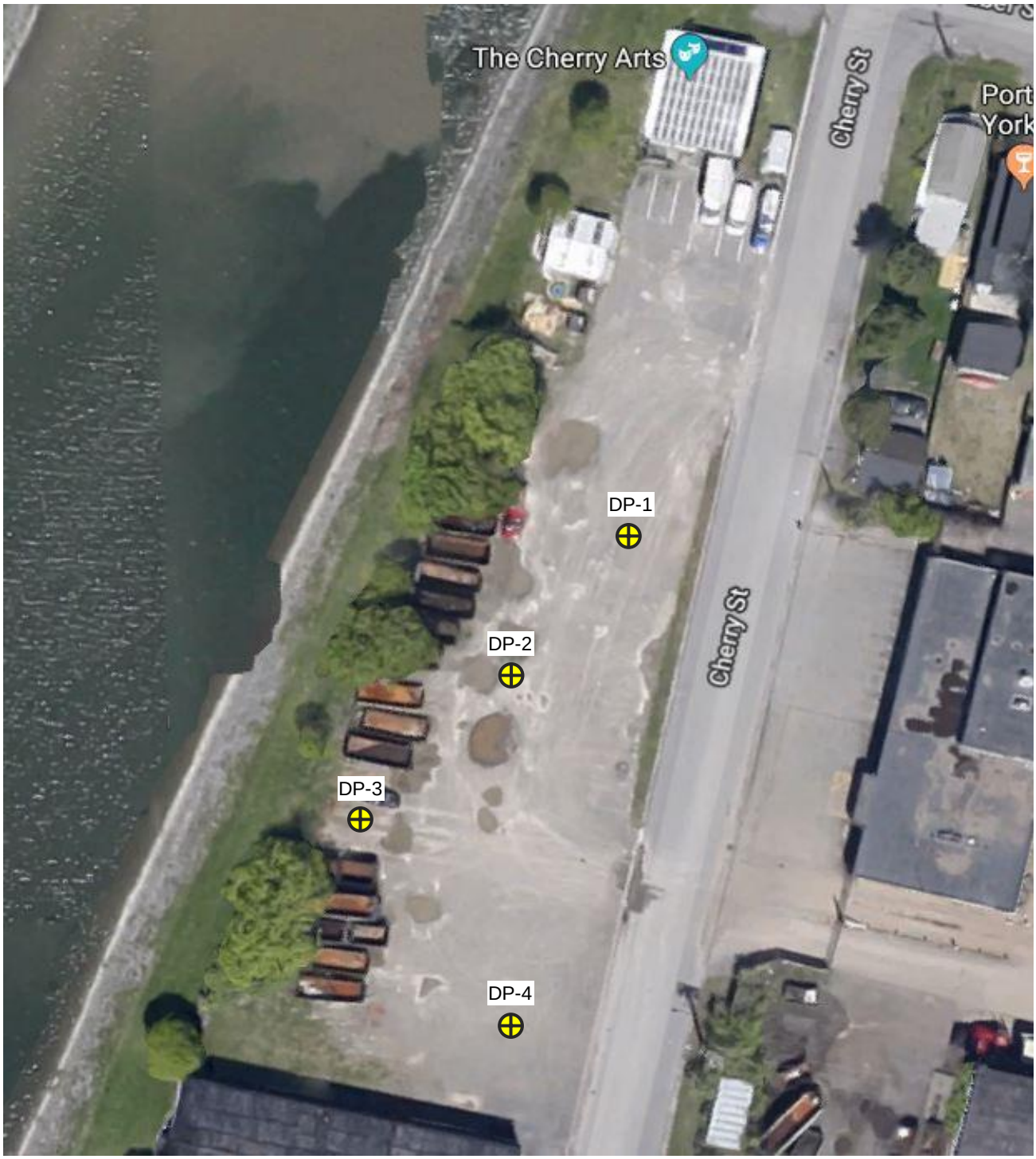
Sincerely,

GeoLogic NY, P.C.

Forrest Earl, P.G.
President/Principal Hydrogeologist

Enc: Drawing, Methodology, Subsurface Logs, and Analytical Results
cc: File P:\PROJECTS\2019\219063 - Visum - Cherry St Ithaca\REPORT\Subsurface Evaluation 219063.doc

DRAWING



N

Project North

LEGEND

⊕ DIRECT PUSH SAMPLE LOCATION

GeoLogic

GeoLogic NY, P.C.

DIRECT PUSH LOCATION PLAN
VACANT LOT
110 CHERRY STREET
ITHACA, NEW YORK

DRAWN BY:	SCALE:	PROJECT NO:
JAM	Not To Scale	219063
REVIEWED BY:	DATE:	DRAWING NO:
FCE	SEPT. 2019	1

FILE:\..\PROJECTS\2019\219063\TECH\DIRECT PUSH LOCATION PLAN.DOCX

METHODOLOGY AND SUBSURFACE LOGS

GeoLogic

Direct Push Boring Methodology

The probe holes were advanced using 1.25-inch diameter probe rods. The probe rods were driven by a hydraulic hammer.

The soil samples were obtained with a steel tube sampler. The sampler has single-use acetate liners for sample preservation.

Continuous soil samples were obtained until groundwater or saturated soils were encountered. When groundwater was encountered, the soil sampler was then removed from the probe hole, a slotted steel well point placed on the rods, and the rods reinserted into the probe hole.

Groundwater samples were obtained using single-use polyethylene tubing equipped with a check valve when needed. The check valve and tubing were inserted down the rods and into the slotted screen point. Groundwater samples were extracted using a peristaltic pump.

The groundwater samples were collected directly into the laboratory sample vials and kept chilled until delivery to the analytical laboratory. Chain of custody procedures were followed throughout sample collection and delivery.

The probing equipment was cleaned with a Liquinox and water solution before starting work at the site and between each boring to minimize the possibility of cross contamination.

The Subsurface Logs attached to this report present the observations and mechanical data collected at the site, supplemented by classification of material removed from the probe holes as determined through visual identification. It is cautioned that the materials removed from the probe holes represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent probe holes or between the sampled intervals. The data presented on the Subsurface Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the project. The evaluation must consider all the recorded details and their significance relative to each other. Often the analysis of probe hole data indicate the need for additional testing or sampling procedures to more adequately evaluate the subsurface conditions. Any evaluation of the contents of this report and the recovered samples must be performed by knowledgeable Professionals.

GeoLogic
PO Box 350
Homer, New York 13077
(607) 749-5000

SUBSURFACE LOG
DIRECT PUSH

Boring No.: DP-1
Project No.: 219063
Date Started: 09/09/19
Date Completed: 09/09/19
Sheet 1 of 1

Project: Vacant Lot
Location: 110 Cherry Street, Ithaca, New York
Surface Elevation:
Top of Well Elevation:

Depth (ft.)	Soil Sample	Sample No.	Recovery (ft.)	PID Reading (ppm)	MATERIAL DESCRIPTION	REMARKS
		1	4.1	0.0	FILL: Brown SAND & GRAVEL, little silt, moist	
				0.0		
				0.0		
				0.0		
				0.0	4.0'	
5				0.0	Brown Black ORGANIC SILT, moist-wet	
		2	0.2	0.0		
				0.0		
				0.0		
				0.0		
10				0.0	10.0'	
		3	4.2	0.0	Gray SILT, trace clay, saturated	
				0.0	Gray fine SAND, Layer at 11.0' saturated	
				0.0	occassional Seam of Gray SILT & CLAY,	
				0.0	saturated	
15				0.0		Advanced SP-15 groundwater
		4	0.1	0.0	Gray SILT, trace clay, saturated	sampler 15.0'-19.0', collected water sample.
						Water level at 18.2'.
20					BORING TERMINATED AT 20.0'	Boring backfilled with cuttings and topped with crushed stone.
25						
30						
35						

Sampling Method: Macrocore
Visually Classified by: Geologist
Notes:

GeoLogic
PO Box 350
Homer, New York 13077
(607) 749-5000

SUBSURFACE LOG
DIRECT PUSH

Boring No.: DP-2
Project No.: 219063
Date Started: 09/09/19
Date Completed: 09/09/19
Sheet 1 of 1

Project: Vacant Lot
Location: 110 Cherry Street, Ithaca, New York
Surface Elevation:
Top of Well Elevation:

Depth (ft.)	Soil Sample	Sample No.	Recovery (ft.)	PID Reading (ppm)	MATERIAL DESCRIPTION	REMARKS
				0.0	FILL: Brown SAND & GRAVEL, little silt, moist	
				0.0		
		1	4.8	0.0	FILL: Brown SILT, little sand, little gravel & little	
				0.0	asphalt, moist 4.0'	
				0.0	Gray Black ORGANIC SILT, moist	
5				0.0	grades to Brown SILT, little fine sand, saturated	
				0.0		
		2	3.1	0.0		
				0.0	grades to Brown SILT, little to Some Clay,	
				0.0	saturated	Water level at 9.8'
10				0.0	grades to Gray SILT, trace clay, saturated	
				0.0	Gray fine SAND, Layer at 11.0' saturated	Advance SP-15 groundwater
		3	3.2	0.0		sampler 7.0'-11.0', collected
				0.0	occassional Seams of Gray SILT & CLAY,	water sample.
				0.0	saturated	
15					BORING TERMINATED AT 15.0'	Boring backfilled with cuttings
						and topped with crushed stone.
20						
25						
30						
35						

Sampling Method: Macrocore
Visually Classified by: Geologist
Notes:

GeoLogic
PO Box 350
Homer, New York 13077
(607) 749-5000

SUBSURFACE LOG
DIRECT PUSH

Boring No.: DP-3
Project No.: 219063
Date Started: 09/09/19
Date Completed: 09/09/19
Sheet 1 of 1

Project: Vacant Lot
Location: 110 Cherry Street, Ithaca, New York
Surface Elevation:
Top of Well Elevation:

Depth (ft.)	Soil Sample	Sample No.	Recovery (ft.)	PID Reading (ppm)	MATERIAL DESCRIPTION	REMARKS
				0.0	FILL: Brown SAND & GRAVEL, little silt, moist	
				0.0		
		1	4.3	0.0	FILL: Brown SAND, GRAVEL, SILT, BRICK &	
				0.0	ASPHALT, moist	
				0.0	5.5'	
5				0.0		
				0.0	Gray ORGANIC SILT, moist-wet	
		2	4.4	0.0		
				0.0	Gray fine SAND, little silt, saturated	Water level at 8.3'.
				0.0		
10				0.0		Advance SP-15 groundwater
				0.0		sampler 7.0'-11.0', collected
			4.1	0.0	grades to Gray SILT & fine SAND, saturated	water sample.
				0.0	grades to Gray fine SAND, little silt, saturated	
				0.0		
15					BORING TERMINATED AT 15.0'	Boring backfilled with cuttings
						and topped with crushed stone.
20						
25						
30						
35						

Sampling Method: Macrocore
Visually Classified by: Geologist
Notes:

GeoLogic
PO Box 350
Homer, New York 13077
(607) 749-5000

SUBSURFACE LOG
DIRECT PUSH

Boring No.: DP-4
Project No.: 219063
Date Started: 09/09/19
Date Completed: 09/09/19
Sheet 1 of 1

Project: Vacant Lot
Location: 110 Cherry Street, Ithaca, New York
Surface Elevation:
Top of Well Elevation:

Depth (ft.)	Soil Sample	Sample No.	Recovery (ft.)	PID Reading (ppm)	MATERIAL DESCRIPTION	REMARKS
		1	4.2	0.0	FILL: Brown SILT & SAND, little gravel, asphalt & brick, moist	
				0.0		
				0.0		
				0.0		
				0.0	4.5'	
5		2	3.8	0.0	Gray ORGANIC SILT, moist	
				0.0	grades to Gray fine SAND, saturated 7.5'	Water level at 6.2'.
				0.0		
				0.0	Brown SILT, little to Some Clay, saturated	
				0.0		
10		3	3.4	0.0	grades Gray SILT, trace clay, saturated	Advance SP-15 groundwater sampler 7.0'-11.0', collected water sample.
				0.0	Gray fine SAND Layer at 11.0'-11.4' saturated	
				0.0		
				0.0	occassional Seams of Gray SILT & CLAY, saturated	
				0.0		
15					BORING TERMINATED AT 15.0'	Boring backfilled with cuttings and topped with crushed stone.
20						
25						
30						
35						

Sampling Method: Macrocore
Visually Classified by: Geologist
Notes:

ANALYTICAL RESULTS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

September 13, 2019

GeoLogic NY, P.C.
Geologic NY
37 Copeland Avenue
Homer, NY 13077

RE: Project: 219063
Pace Project No.: 30324107

Dear GeoLogic NY, P.C.:
Enclosed are the analytical results for sample(s) received by the laboratory on September 11, 2019. 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,

Rachel D Christner

Rachel Christner
rachel.christner@pacelabs.com
724-850-5611
Project Manager

Enclosures

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 219063
Pace Project No.: 30324107

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 219063
Pace Project No.: 30324107

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30324107001	**DP-1**	EPA 8260C	LEL	71	PASI-PA
30324107002	**DP-1**	EPA 8270D by SIM	AJC	18	PASI-PA
		ASTM D2974-87	SHD	1	PASI-PA
30324107003	**DP-2**	EPA 8270D by SIM	AJC	18	PASI-PA
		EPA 8260C	LEL	71	PASI-PA
30324107004	**DP-3**	EPA 8270D by SIM	AJC	18	PASI-PA
		EPA 8260C	LEL	71	PASI-PA
30324107005	**DP-4**	EPA 8270D by SIM	AJC	18	PASI-PA
		EPA 8260C	LEL	71	PASI-PA
30324107006	**Trip Blank**	EPA 8260C	LEL	71	PASI-PA

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30324107

Date: September 13, 2019

DP-1 (Lab ID: 30324107001)

- Post-analysis pH measurement indicates pH > 2.
- 8260 pH = 5

DP-2 (Lab ID: 30324107003)

- Post-analysis pH measurement indicates pH > 2.
- 8260 pH = 6

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30324107

Method: **EPA 8270D by SIM**
Description: 8270D MSSV PAH by SIM
Client: GeoLogic NY, P.C.
Date: September 13, 2019

General Information:
4 samples were analyzed for EPA 8270D by SIM. 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.
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.

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: 360888

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30323638005

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 1751536)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Indeno(1,2,3-cd)pyrene

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30324107

Method: **EPA 8270D by SIM**
Description: 8270D MSSV PAH by SIM
Client: GeoLogic NY, P.C.
Date: September 13, 2019

QC Batch: 360888

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30323638005

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MSD (Lab ID: 1751537)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Chrysene
  - Fluoranthene
  - Phenanthrene
  - Pyrene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1751537)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluoranthene
  - Fluorene
  - Indeno(1,2,3-cd)pyrene
  - Phenanthrene
  - Pyrene

QC Batch: 360975

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 360975

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- DP-2 (Lab ID: 30324107003)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30324107

Method: **EPA 8270D by SIM**
Description: 8270D MSSV PAH by SIM
Client: GeoLogic NY, P.C.
Date: September 13, 2019

Analyte Comments:

QC Batch: 360975

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- DP-2 (Lab ID: 30324107003)
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- DP-3 (Lab ID: 30324107004)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- DP-4 (Lab ID: 30324107005)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30324107

Method: **EPA 8270D by SIM**
Description: 8270D MSSV PAH by SIM
Client: GeoLogic NY, P.C.
Date: September 13, 2019

Analyte Comments:

QC Batch: 360975

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- DP-4 (Lab ID: 30324107005)
  - Pyrene

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30324107

Method: **EPA 8260C**
Description: 8260C MSV
Client: GeoLogic NY, P.C.
Date: September 13, 2019

General Information:
5 samples were analyzed for EPA 8260C. 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.

QC Batch: 361052

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1752177)
  - Dibromomethane
- DP-1 (Lab ID: 30324107001)
  - Dibromomethane
- DP-2 (Lab ID: 30324107003)
  - Dibromomethane
- DP-3 (Lab ID: 30324107004)
  - Dibromomethane
- DP-4 (Lab ID: 30324107005)
  - Dibromomethane
- LCS (Lab ID: 1752178)
  - Dibromomethane
- MS (Lab ID: 1752695)
  - Dibromomethane
- MSD (Lab ID: 1752696)
  - Dibromomethane
- Trip Blank (Lab ID: 30324107006)
  - Dibromomethane

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1752177)
  - Bromomethane
- DP-1 (Lab ID: 30324107001)
  - Bromomethane
- DP-2 (Lab ID: 30324107003)
  - Bromomethane
- DP-3 (Lab ID: 30324107004)
  - Bromomethane
- DP-4 (Lab ID: 30324107005)
  - Bromomethane
- LCS (Lab ID: 1752178)

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30324107

Method: **EPA 8260C**
Description: 8260C MSV
Client: GeoLogic NY, P.C.
Date: September 13, 2019

QC Batch: 361052

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
- Bromomethane
- MS (Lab ID: 1752695)
  - Bromomethane
- MSD (Lab ID: 1752696)
  - Bromomethane
- Trip Blank (Lab ID: 30324107006)
  - Bromomethane

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: 361052

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30324107004

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
- MS (Lab ID: 1752695)
  - 2-Chloroethylvinyl ether
- MSD (Lab ID: 1752696)
  - 2-Chloroethylvinyl ether

R1: RPD value was outside control limits.
- MSD (Lab ID: 1752696)
  - Bromomethane

Additional Comments:

Analyte Comments:

QC Batch: 361052

2c: The analyte did not meet the method recommended minimum RF.
- BLANK (Lab ID: 1752177)
  - Acetone

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30324107

Method: **EPA 8260C**
Description: 8260C MSV
Client: GeoLogic NY, P.C.
Date: September 13, 2019

Analyte Comments:

QC Batch: 361052

2c: The analyte did not meet the method recommended minimum RF.

- DP-1 (Lab ID: 30324107001)
  - Acetone
- DP-2 (Lab ID: 30324107003)
  - Acetone
- DP-3 (Lab ID: 30324107004)
  - Acetone
- DP-4 (Lab ID: 30324107005)
  - Acetone
- LCS (Lab ID: 1752178)
  - Acetone
- MS (Lab ID: 1752695)
  - Acetone
- MSD (Lab ID: 1752696)
  - Acetone
- Trip Blank (Lab ID: 30324107006)
  - Acetone

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30324107

Sample: DP-1 **Lab ID: 30324107001** Collected: 09/09/19 09:20 Received: 09/11/19 09:20 Matrix: Water

Comments: • Post-analysis pH measurement indicates pH > 2.
• 8260 pH = 5

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/12/19 14:31	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/19 14:31	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/12/19 14:31	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/12/19 14:31	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/12/19 14:31	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/12/19 14:31	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/12/19 14:31	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		09/12/19 14:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/12/19 14:31	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/12/19 14:31	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/12/19 14:31	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/12/19 14:31	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 14:31	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/19 14:31	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/12/19 14:31	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/12/19 14:31	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 14:31	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/12/19 14:31	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 14:31	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/12/19 14:31	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/12/19 14:31	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		09/12/19 14:31	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		09/12/19 14:31	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		09/12/19 14:31	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		09/12/19 14:31	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/12/19 14:31	108-10-1	
Acetone	**27.3**	ug/L	10.0	1		09/12/19 14:31	67-64-1	2c
Benzene	ND	ug/L	1.0	1		09/12/19 14:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/12/19 14:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/12/19 14:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/12/19 14:31	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/12/19 14:31	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/12/19 14:31	74-83-9	CL
Carbon disulfide	ND	ug/L	1.0	1		09/12/19 14:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/12/19 14:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/12/19 14:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/12/19 14:31	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/12/19 14:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/12/19 14:31	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		09/12/19 14:31	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		09/12/19 14:31	74-95-3	CH
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/12/19 14:31	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		09/12/19 14:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/12/19 14:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/12/19 14:31	98-82-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30324107

Sample: DP-1 **Lab ID: 30324107001** Collected: 09/09/19 09:20 Received: 09/11/19 09:20 Matrix: Water

Comments: • Post-analysis pH measurement indicates pH > 2.
• 8260 pH = 5

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/12/19 14:31	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		09/12/19 14:31	75-09-2	
Naphthalene	ND	ug/L	2.0	1		09/12/19 14:31	91-20-3	
Styrene	ND	ug/L	1.0	1		09/12/19 14:31	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/12/19 14:31	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/19 14:31	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		09/12/19 14:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/12/19 14:31	75-69-4	
Vinyl acetate	ND	ug/L	1.0	1		09/12/19 14:31	108-05-4	
Vinyl chloride	**6.3**	ug/L	1.0	1		09/12/19 14:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/19 14:31	1330-20-7	
cis-1,2-Dichloroethene	**986**	ug/L	10.0	10		09/12/19 20:21	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/12/19 14:31	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		09/12/19 14:31	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		09/12/19 14:31	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		09/12/19 14:31	103-65-1	
o-Xylene	ND	ug/L	1.0	1		09/12/19 14:31	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/12/19 14:31	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		09/12/19 14:31	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/12/19 14:31	98-06-6	
trans-1,2-Dichloroethene	**3.4**	ug/L	1.0	1		09/12/19 14:31	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/12/19 14:31	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	108	%.	78-122	1		09/12/19 14:31	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120	1		09/12/19 14:31	17060-07-0	
Toluene-d8 (S)	95	%.	80-120	1		09/12/19 14:31	2037-26-5	
Dibromofluoromethane (S)	108	%.	80-120	1		09/12/19 14:31	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30324107

Sample: DP-1 **Lab ID: 30324107002** Collected: 09/09/19 09:05 Received: 09/11/19 09:20 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	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	83-32-9	
Acenaphthylene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	208-96-8	
Anthracene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	207-08-9	
Chrysene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	53-70-3	
Fluoranthene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	206-44-0	
Fluorene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	193-39-5	
Naphthalene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	91-20-3	
Phenanthrene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	85-01-8	
Pyrene	ND	ug/kg	8.6	1	09/12/19 08:12	09/12/19 16:16	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	85	%.	43-97	1	09/12/19 08:12	09/12/19 16:16	321-60-8	
Terphenyl-d14 (S)	97	%.	56-106	1	09/12/19 08:12	09/12/19 16:16	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**22.3**	%	0.10	1		09/12/19 09:57		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30324107

Sample: DP-2 **Lab ID: 30324107003** Collected: 09/09/19 10:30 Received: 09/11/19 09:20 Matrix: Water

Comments: • Post-analysis pH measurement indicates pH > 2.
• 8260 pH = 6

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	**1.5**	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	83-32-9	1c,A5
Acenaphthylene	**0.47**	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	208-96-8	1c,A5
Anthracene	**0.42**	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	120-12-7	1c,A5
Benzo(a)anthracene	ND	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	56-55-3	1c,A5
Benzo(a)pyrene	ND	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	50-32-8	1c,A5
Benzo(b)fluoranthene	ND	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	205-99-2	1c,A5
Benzo(g,h,i)perylene	ND	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	191-24-2	1c,A5
Benzo(k)fluoranthene	ND	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	207-08-9	1c,A5
Chrysene	ND	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	218-01-9	1c,A5
Dibenz(a,h)anthracene	ND	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	53-70-3	1c,A5
Fluoranthene	**0.38**	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	206-44-0	1c,A5
Fluorene	**1.9**	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	86-73-7	1c,A5
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	193-39-5	1c,A5
Naphthalene	**9.2**	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	91-20-3	1c,A5
Phenanthrene	**2.5**	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	85-01-8	1c,A5
Pyrene	**0.32**	ug/L	0.16	1	09/12/19 08:44	09/12/19 15:23	129-00-0	1c,A5
Surrogates								
2-Fluorobiphenyl (S)	70	%.	19-97	1	09/12/19 08:44	09/12/19 15:23	321-60-8	
Terphenyl-d14 (S)	94	%.	47-105	1	09/12/19 08:44	09/12/19 15:23	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/12/19 14:56	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/19 14:56	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/12/19 14:56	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/12/19 14:56	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/12/19 14:56	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/12/19 14:56	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/12/19 14:56	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		09/12/19 14:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/12/19 14:56	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/12/19 14:56	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/12/19 14:56	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/12/19 14:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 14:56	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/19 14:56	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/12/19 14:56	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/12/19 14:56	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 14:56	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/12/19 14:56	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 14:56	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/12/19 14:56	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/12/19 14:56	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		09/12/19 14:56	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		09/12/19 14:56	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		09/12/19 14:56	591-78-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30324107

Sample: DP-2 **Lab ID: 30324107003** Collected: 09/09/19 10:30 Received: 09/11/19 09:20 Matrix: Water

Comments: • Post-analysis pH measurement indicates pH > 2.
• 8260 pH = 6

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
4-Chlorotoluene	ND	ug/L	1.0	1		09/12/19 14:56	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/12/19 14:56	108-10-1	
Acetone	**16.9**	ug/L	10.0	1		09/12/19 14:56	67-64-1	2c
Benzene	ND	ug/L	1.0	1		09/12/19 14:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/12/19 14:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/12/19 14:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/12/19 14:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/12/19 14:56	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/12/19 14:56	74-83-9	CL
Carbon disulfide	ND	ug/L	1.0	1		09/12/19 14:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/12/19 14:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/12/19 14:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/12/19 14:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/12/19 14:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/12/19 14:56	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		09/12/19 14:56	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		09/12/19 14:56	74-95-3	CH
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/12/19 14:56	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		09/12/19 14:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/12/19 14:56	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/12/19 14:56	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/12/19 14:56	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		09/12/19 14:56	75-09-2	
Naphthalene	**15.1**	ug/L	2.0	1		09/12/19 14:56	91-20-3	
Styrene	ND	ug/L	1.0	1		09/12/19 14:56	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/12/19 14:56	127-18-4	
Toluene	**1.2**	ug/L	1.0	1		09/12/19 14:56	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		09/12/19 14:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/12/19 14:56	75-69-4	
Vinyl acetate	ND	ug/L	1.0	1		09/12/19 14:56	108-05-4	
Vinyl chloride	**2.3**	ug/L	1.0	1		09/12/19 14:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/19 14:56	1330-20-7	
cis-1,2-Dichloroethene	**92.9**	ug/L	1.0	1		09/12/19 14:56	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/12/19 14:56	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		09/12/19 14:56	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		09/12/19 14:56	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		09/12/19 14:56	103-65-1	
o-Xylene	ND	ug/L	1.0	1		09/12/19 14:56	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/12/19 14:56	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		09/12/19 14:56	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/12/19 14:56	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/19 14:56	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/12/19 14:56	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	108	%.	78-122	1		09/12/19 14:56	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30324107

Sample: DP-2 **Lab ID: 30324107003** Collected: 09/09/19 10:30 Received: 09/11/19 09:20 Matrix: Water

Comments: • Post-analysis pH measurement indicates pH > 2.
• 8260 pH = 6

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	80-120	1		09/12/19 14:56	17060-07-0	
Toluene-d8 (S)	100	%.	80-120	1		09/12/19 14:56	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120	1		09/12/19 14:56	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30324107

Sample: DP-3 **Lab ID: 30324107004** Collected: 09/09/19 12:10 Received: 09/11/19 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	83-32-9	1c,A5
Acenaphthylene	ND	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	208-96-8	1c,A5
Anthracene	ND	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	120-12-7	1c,A5
Benzo(a)anthracene	ND	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	56-55-3	1c,A5
Benzo(a)pyrene	ND	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	50-32-8	1c,A5
Benzo(b)fluoranthene	ND	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	205-99-2	1c,A5
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	191-24-2	1c,A5
Benzo(k)fluoranthene	ND	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	207-08-9	1c,A5
Chrysene	ND	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	218-01-9	1c,A5
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	53-70-3	1c,A5
Fluoranthene	ND	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	206-44-0	1c,A5
Fluorene	**0.11**	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	86-73-7	1c,A5
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	193-39-5	1c,A5
Naphthalene	**0.43**	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	91-20-3	1c,A5
Phenanthrene	**0.17**	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	85-01-8	1c,A5
Pyrene	ND	ug/L	0.11	1	09/12/19 08:44	09/12/19 15:40	129-00-0	1c,A5
Surrogates								
2-Fluorobiphenyl (S)	77	%.	19-97	1	09/12/19 08:44	09/12/19 15:40	321-60-8	
Terphenyl-d14 (S)	100	%.	47-105	1	09/12/19 08:44	09/12/19 15:40	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/12/19 14:06	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/19 14:06	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/12/19 14:06	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/12/19 14:06	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/12/19 14:06	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/12/19 14:06	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/12/19 14:06	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		09/12/19 14:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/12/19 14:06	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/12/19 14:06	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/12/19 14:06	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/12/19 14:06	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 14:06	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/19 14:06	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/12/19 14:06	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/12/19 14:06	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 14:06	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/12/19 14:06	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 14:06	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/12/19 14:06	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/12/19 14:06	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		09/12/19 14:06	110-75-8	ML,c2
2-Chlorotoluene	ND	ug/L	1.0	1		09/12/19 14:06	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		09/12/19 14:06	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		09/12/19 14:06	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/12/19 14:06	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30324107

Sample: DP-3 **Lab ID: 30324107004** Collected: 09/09/19 12:10 Received: 09/11/19 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	ND	ug/L	10.0	1		09/12/19 14:06	67-64-1	2c
Benzene	ND	ug/L	1.0	1		09/12/19 14:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/12/19 14:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/12/19 14:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/12/19 14:06	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/12/19 14:06	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/12/19 14:06	74-83-9	CL,R1
Carbon disulfide	ND	ug/L	1.0	1		09/12/19 14:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/12/19 14:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/12/19 14:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/12/19 14:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/12/19 14:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/12/19 14:06	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		09/12/19 14:06	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		09/12/19 14:06	74-95-3	CH
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/12/19 14:06	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		09/12/19 14:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/12/19 14:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/12/19 14:06	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/12/19 14:06	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		09/12/19 14:06	75-09-2	
Naphthalene	ND	ug/L	2.0	1		09/12/19 14:06	91-20-3	
Styrene	ND	ug/L	1.0	1		09/12/19 14:06	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/12/19 14:06	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/19 14:06	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		09/12/19 14:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/12/19 14:06	75-69-4	
Vinyl acetate	ND	ug/L	1.0	1		09/12/19 14:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/12/19 14:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/19 14:06	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/19 14:06	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/12/19 14:06	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		09/12/19 14:06	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		09/12/19 14:06	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		09/12/19 14:06	103-65-1	
o-Xylene	ND	ug/L	1.0	1		09/12/19 14:06	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/12/19 14:06	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		09/12/19 14:06	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/12/19 14:06	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/19 14:06	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/12/19 14:06	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	107	%.	78-122	1		09/12/19 14:06	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120	1		09/12/19 14:06	17060-07-0	
Toluene-d8 (S)	95	%.	80-120	1		09/12/19 14:06	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120	1		09/12/19 14:06	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30324107

Sample: DP-4 **Lab ID: 30324107005** Collected: 09/09/19 13:10 Received: 09/11/19 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	83-32-9	1c,A5
Acenaphthylene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	208-96-8	1c,A5
Anthracene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	120-12-7	1c,A5
Benzo(a)anthracene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	56-55-3	1c,A5
Benzo(a)pyrene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	50-32-8	1c,A5
Benzo(b)fluoranthene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	205-99-2	1c,A5
Benzo(g,h,i)perylene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	191-24-2	1c,A5
Benzo(k)fluoranthene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	207-08-9	1c,A5
Chrysene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	218-01-9	1c,A5
Dibenz(a,h)anthracene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	53-70-3	1c,A5
Fluoranthene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	206-44-0	1c,A5
Fluorene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	86-73-7	1c,A5
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	193-39-5	1c,A5
Naphthalene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	91-20-3	1c,A5
Phenanthrene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	85-01-8	1c,A5
Pyrene	ND	ug/L	0.12	1	09/12/19 08:44	09/12/19 15:58	129-00-0	1c,A5
Surrogates								
2-Fluorobiphenyl (S)	78	%.	19-97	1	09/12/19 08:44	09/12/19 15:58	321-60-8	
Terphenyl-d14 (S)	84	%.	47-105	1	09/12/19 08:44	09/12/19 15:58	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/12/19 15:21	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/19 15:21	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/12/19 15:21	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/12/19 15:21	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/12/19 15:21	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/12/19 15:21	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/12/19 15:21	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		09/12/19 15:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/12/19 15:21	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/12/19 15:21	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/12/19 15:21	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/12/19 15:21	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 15:21	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/19 15:21	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/12/19 15:21	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/12/19 15:21	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 15:21	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/12/19 15:21	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 15:21	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/12/19 15:21	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/12/19 15:21	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		09/12/19 15:21	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		09/12/19 15:21	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		09/12/19 15:21	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		09/12/19 15:21	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/12/19 15:21	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30324107

Sample: DP-4 **Lab ID: 30324107005** Collected: 09/09/19 13:10 Received: 09/11/19 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	ND	ug/L	10.0	1		09/12/19 15:21	67-64-1	2c
Benzene	ND	ug/L	1.0	1		09/12/19 15:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/12/19 15:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/12/19 15:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/12/19 15:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/12/19 15:21	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/12/19 15:21	74-83-9	CL
Carbon disulfide	ND	ug/L	1.0	1		09/12/19 15:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/12/19 15:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/12/19 15:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/12/19 15:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/12/19 15:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/12/19 15:21	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		09/12/19 15:21	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		09/12/19 15:21	74-95-3	CH
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/12/19 15:21	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		09/12/19 15:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/12/19 15:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/12/19 15:21	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/12/19 15:21	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		09/12/19 15:21	75-09-2	
Naphthalene	ND	ug/L	2.0	1		09/12/19 15:21	91-20-3	
Styrene	ND	ug/L	1.0	1		09/12/19 15:21	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/12/19 15:21	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/19 15:21	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		09/12/19 15:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/12/19 15:21	75-69-4	
Vinyl acetate	ND	ug/L	1.0	1		09/12/19 15:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/12/19 15:21	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/19 15:21	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/19 15:21	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/12/19 15:21	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		09/12/19 15:21	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		09/12/19 15:21	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		09/12/19 15:21	103-65-1	
o-Xylene	ND	ug/L	1.0	1		09/12/19 15:21	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/12/19 15:21	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		09/12/19 15:21	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/12/19 15:21	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/19 15:21	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/12/19 15:21	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	107	%.	78-122	1		09/12/19 15:21	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120	1		09/12/19 15:21	17060-07-0	
Toluene-d8 (S)	93	%.	80-120	1		09/12/19 15:21	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120	1		09/12/19 15:21	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30324107

Sample: Trip Blank **Lab ID: 30324107006** Collected: 09/09/19 00:01 Received: 09/11/19 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/12/19 13:41	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/19 13:41	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/12/19 13:41	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/12/19 13:41	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/12/19 13:41	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/12/19 13:41	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/12/19 13:41	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		09/12/19 13:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/12/19 13:41	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/12/19 13:41	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/12/19 13:41	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/12/19 13:41	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 13:41	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/19 13:41	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/12/19 13:41	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/12/19 13:41	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 13:41	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/12/19 13:41	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/12/19 13:41	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/12/19 13:41	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/12/19 13:41	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		09/12/19 13:41	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		09/12/19 13:41	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		09/12/19 13:41	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		09/12/19 13:41	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/12/19 13:41	108-10-1	
Acetone	ND	ug/L	10.0	1		09/12/19 13:41	67-64-1	2c
Benzene	ND	ug/L	1.0	1		09/12/19 13:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/12/19 13:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/12/19 13:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/12/19 13:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/12/19 13:41	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/12/19 13:41	74-83-9	CL
Carbon disulfide	ND	ug/L	1.0	1		09/12/19 13:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/12/19 13:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/12/19 13:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/12/19 13:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/12/19 13:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/12/19 13:41	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		09/12/19 13:41	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		09/12/19 13:41	74-95-3	CH
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/12/19 13:41	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		09/12/19 13:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/12/19 13:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/12/19 13:41	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/12/19 13:41	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		09/12/19 13:41	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30324107

Sample: Trip Blank **Lab ID: 30324107006** Collected: 09/09/19 00:01 Received: 09/11/19 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Naphthalene	ND	ug/L	2.0	1		09/12/19 13:41	91-20-3	
Styrene	ND	ug/L	1.0	1		09/12/19 13:41	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/12/19 13:41	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/19 13:41	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		09/12/19 13:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/12/19 13:41	75-69-4	
Vinyl acetate	ND	ug/L	1.0	1		09/12/19 13:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/12/19 13:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/19 13:41	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/19 13:41	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/12/19 13:41	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		09/12/19 13:41	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		09/12/19 13:41	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		09/12/19 13:41	103-65-1	
o-Xylene	ND	ug/L	1.0	1		09/12/19 13:41	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/12/19 13:41	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		09/12/19 13:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/12/19 13:41	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/19 13:41	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/12/19 13:41	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	107	%.	78-122	1		09/12/19 13:41	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120	1		09/12/19 13:41	17060-07-0	
Toluene-d8 (S)	98	%.	80-120	1		09/12/19 13:41	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120	1		09/12/19 13:41	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30324107

QC Batch: 361052 Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C Analysis Description: 8260C MSV
Associated Lab Samples: 30324107001, 30324107003, 30324107004, 30324107005, 30324107006

METHOD BLANK: 1752177 Matrix: Water
Associated Lab Samples: 30324107001, 30324107003, 30324107004, 30324107005, 30324107006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/12/19 12:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/12/19 12:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/12/19 12:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/12/19 12:26	
1,1-Dichloroethane	ug/L	ND	1.0	09/12/19 12:26	
1,1-Dichloroethene	ug/L	ND	1.0	09/12/19 12:26	
1,1-Dichloropropene	ug/L	ND	1.0	09/12/19 12:26	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	09/12/19 12:26	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/12/19 12:26	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	09/12/19 12:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	09/12/19 12:26	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/12/19 12:26	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/12/19 12:26	
1,2-Dichloroethane	ug/L	ND	1.0	09/12/19 12:26	
1,2-Dichloropropane	ug/L	ND	1.0	09/12/19 12:26	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	09/12/19 12:26	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/12/19 12:26	
1,3-Dichloropropane	ug/L	ND	1.0	09/12/19 12:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/12/19 12:26	
2,2-Dichloropropane	ug/L	ND	1.0	09/12/19 12:26	
2-Butanone (MEK)	ug/L	ND	10.0	09/12/19 12:26	
2-Chloroethylvinyl ether	ug/L	ND	2.0	09/12/19 12:26	
2-Chlorotoluene	ug/L	ND	1.0	09/12/19 12:26	
2-Hexanone	ug/L	ND	10.0	09/12/19 12:26	
4-Chlorotoluene	ug/L	ND	1.0	09/12/19 12:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	09/12/19 12:26	
Acetone	ug/L	ND	10.0	09/12/19 12:26	2c
Benzene	ug/L	ND	1.0	09/12/19 12:26	
Bromobenzene	ug/L	ND	1.0	09/12/19 12:26	
Bromochloromethane	ug/L	ND	1.0	09/12/19 12:26	
Bromodichloromethane	ug/L	ND	1.0	09/12/19 12:26	
Bromoform	ug/L	ND	1.0	09/12/19 12:26	
Bromomethane	ug/L	ND	1.0	09/12/19 12:26	CL
Carbon disulfide	ug/L	ND	1.0	09/12/19 12:26	
Carbon tetrachloride	ug/L	ND	1.0	09/12/19 12:26	
Chlorobenzene	ug/L	ND	1.0	09/12/19 12:26	
Chloroethane	ug/L	ND	1.0	09/12/19 12:26	
Chloroform	ug/L	ND	1.0	09/12/19 12:26	
Chloromethane	ug/L	ND	1.0	09/12/19 12:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/12/19 12:26	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/12/19 12:26	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30324107

METHOD BLANK: 1752177 Matrix: Water
Associated Lab Samples: 30324107001, 30324107003, 30324107004, 30324107005, 30324107006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	09/12/19 12:26	
Dibromomethane	ug/L	ND	1.0	09/12/19 12:26	CH
Dichlorodifluoromethane	ug/L	ND	1.0	09/12/19 12:26	
Ethylbenzene	ug/L	ND	1.0	09/12/19 12:26	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	09/12/19 12:26	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/12/19 12:26	
m&p-Xylene	ug/L	ND	2.0	09/12/19 12:26	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/12/19 12:26	
Methylene Chloride	ug/L	ND	1.0	09/12/19 12:26	
n-Butylbenzene	ug/L	ND	1.0	09/12/19 12:26	
n-Propylbenzene	ug/L	ND	1.0	09/12/19 12:26	
Naphthalene	ug/L	ND	2.0	09/12/19 12:26	
o-Xylene	ug/L	ND	1.0	09/12/19 12:26	
p-Isopropyltoluene	ug/L	ND	1.0	09/12/19 12:26	
sec-Butylbenzene	ug/L	ND	1.0	09/12/19 12:26	
Styrene	ug/L	ND	1.0	09/12/19 12:26	
tert-Butylbenzene	ug/L	ND	1.0	09/12/19 12:26	
Tetrachloroethene	ug/L	ND	1.0	09/12/19 12:26	
Toluene	ug/L	ND	1.0	09/12/19 12:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/12/19 12:26	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/12/19 12:26	
Trichloroethene	ug/L	ND	1.0	09/12/19 12:26	
Trichlorofluoromethane	ug/L	ND	1.0	09/12/19 12:26	
Vinyl acetate	ug/L	ND	1.0	09/12/19 12:26	
Vinyl chloride	ug/L	ND	1.0	09/12/19 12:26	
Xylene (Total)	ug/L	ND	3.0	09/12/19 12:26	
1,2-Dichloroethane-d4 (S)	%.	98	80-120	09/12/19 12:26	
4-Bromofluorobenzene (S)	%.	109	78-122	09/12/19 12:26	
Dibromofluoromethane (S)	%.	97	80-120	09/12/19 12:26	
Toluene-d8 (S)	%.	94	80-120	09/12/19 12:26	

LABORATORY CONTROL SAMPLE: 1752178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.9	105	70-130	
1,1,1-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	24.7	123	70-130	
1,1,2-Trichloroethane	ug/L	20	21.6	108	70-130	
1,1-Dichloroethane	ug/L	20	16.9	85	68-121	
1,1-Dichloroethene	ug/L	20	14.9	75	63-129	
1,1-Dichloropropene	ug/L	20	18.7	94	70-130	
1,2,3-Trichlorobenzene	ug/L	20	23.5	117	70-130	
1,2,4-Trichlorobenzene	ug/L	20	23.9	120	70-130	
1,2,4-Trimethylbenzene	ug/L	20	20.9	105	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30324107

LABORATORY CONTROL SAMPLE: 1752178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	20	24.5	123	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	22.7	113	70-130	
1,2-Dichlorobenzene	ug/L	20	23.4	117	70-130	
1,2-Dichloroethane	ug/L	20	18.2	91	67-117	
1,2-Dichloropropane	ug/L	20	19.9	99	69-121	
1,3,5-Trimethylbenzene	ug/L	20	19.9	99	70-130	
1,3-Dichlorobenzene	ug/L	20	23.5	118	70-130	
1,3-Dichloropropane	ug/L	20	21.2	106	70-130	
1,4-Dichlorobenzene	ug/L	20	24.0	120	70-130	
2,2-Dichloropropane	ug/L	20	17.6	88	54-130	
2-Butanone (MEK)	ug/L	20	18.9	94	59-128	
2-Chloroethylvinyl ether	ug/L	20	20.2	101	63-120	
2-Chlorotoluene	ug/L	20	22.2	111	70-130	
2-Hexanone	ug/L	20	20.1	100	49-145	
4-Chlorotoluene	ug/L	20	21.8	109	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.3	111	63-126	
Acetone	ug/L	20	24.0	120	37-150	2c
Benzene	ug/L	20	19.5	97	70-130	
Bromobenzene	ug/L	20	20.1	101	70-130	
Bromochloromethane	ug/L	20	23.1	115	59-137	
Bromodichloromethane	ug/L	20	21.9	110	70-130	
Bromoform	ug/L	20	17.4	87	65-130	
Bromomethane	ug/L	20	11.4	57	45-148	CL
Carbon disulfide	ug/L	20	16.6	83	55-123	
Carbon tetrachloride	ug/L	20	17.5	87	69-126	
Chlorobenzene	ug/L	20	21.2	106	70-130	
Chloroethane	ug/L	20	18.5	93	68-146	
Chloroform	ug/L	20	20.0	100	69-116	
Chloromethane	ug/L	20	19.3	97	56-129	
cis-1,2-Dichloroethene	ug/L	20	17.6	88	66-118	
cis-1,3-Dichloropropene	ug/L	20	19.7	98	70-130	
Dibromochloromethane	ug/L	20	21.3	106	70-130	
Dibromomethane	ug/L	20	24.2	121	70-130	CH
Dichlorodifluoromethane	ug/L	20	20.9	104	44-171	
Ethylbenzene	ug/L	20	21.0	105	70-130	
Hexachloro-1,3-butadiene	ug/L	20	21.6	108	73-141	
Isopropylbenzene (Cumene)	ug/L	20	20.5	102	70-130	
m&p-Xylene	ug/L	40	42.3	106	70-130	
Methyl-tert-butyl ether	ug/L	20	18.5	93	70-130	
Methylene Chloride	ug/L	20	16.8	84	65-124	
n-Butylbenzene	ug/L	20	20.3	101	71-138	
n-Propylbenzene	ug/L	20	20.4	102	70-130	
Naphthalene	ug/L	20	24.6	123	69-135	
o-Xylene	ug/L	20	21.6	108	70-130	
p-Isopropyltoluene	ug/L	20	21.3	106	70-130	
sec-Butylbenzene	ug/L	20	20.6	103	70-130	
Styrene	ug/L	20	22.0	110	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30324107

LABORATORY CONTROL SAMPLE: 1752178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	20	21.3	107	70-130	
Tetrachloroethene	ug/L	20	21.5	108	70-130	
Toluene	ug/L	20	19.5	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.4	82	64-123	
trans-1,3-Dichloropropene	ug/L	20	19.0	95	68-119	
Trichloroethene	ug/L	20	20.3	102	70-130	
Trichlorofluoromethane	ug/L	20	22.9	114	64-163	
Vinyl acetate	ug/L	20	9.1	45	45-129	
Vinyl chloride	ug/L	20	17.5	87	70-130	
Xylene (Total)	ug/L	60	63.9	107	70-130	
1,2-Dichloroethane-d4 (S)	%.			96	80-120	
4-Bromofluorobenzene (S)	%.			107	78-122	
Dibromofluoromethane (S)	%.			104	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1752695 1752696

Parameter	Units	30324107004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	16.6	17.5	83	87	52-123	5	
1,1,1-Trichloroethane	ug/L	ND	20	20	16.1	17.5	81	88	67-127	8	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.8	17.8	89	89	55-118	0	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.3	18.3	86	92	60-117	6	
1,1-Dichloroethane	ug/L	ND	20	20	14.5	15.6	73	78	68-118	7	
1,1-Dichloroethene	ug/L	ND	20	20	13.5	14.8	68	74	62-126	9	
1,1-Dichloropropene	ug/L	ND	20	20	16.9	17.5	85	87	55-129	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.6	18.1	83	90	49-128	9	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.4	17.7	82	89	60-128	8	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	18.4	17.8	92	89	70-130	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	17.4	18.5	87	93	46-130	6	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.4	19.5	92	98	69-124	6	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.2	18.4	91	92	66-116	1	
1,2-Dichloroethane	ug/L	ND	20	20	15.3	16.0	77	80	67-117	4	
1,2-Dichloropropane	ug/L	ND	20	20	16.4	16.6	82	83	61-128	1	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	17.0	17.4	85	87	70-130	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.6	18.9	93	94	67-117	2	
1,3-Dichloropropane	ug/L	ND	20	20	18.1	18.5	91	92	62-117	2	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.8	18.5	94	92	68-116	2	
2,2-Dichloropropane	ug/L	ND	20	20	15.3	16.0	77	80	44-134	4	
2-Butanone (MEK)	ug/L	ND	20	20	18.3	20.3	92	102	63-175	10	
2-Chloroethylvinyl ether	ug/L	ND	20	20	ND	ND	0	0	10-105		ML
2-Chlorotoluene	ug/L	ND	20	20	18.1	18.0	91	90	50-124	1	
2-Hexanone	ug/L	ND	20	20	15.8	18.8	79	94	65-151	17	
4-Chlorotoluene	ug/L	ND	20	20	17.3	17.5	87	87	49-127	1	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	15.7	19.7	78	99	66-149	23	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30324107

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1752695 1752696

Parameter	Units	30324107004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Acetone	ug/L	ND	20	20	27.3	30.0	98	112	10-175	9	2c
Benzene	ug/L	ND	20	20	17.7	18.0	88	90	67-119	2	
Bromobenzene	ug/L	ND	20	20	16.6	16.6	83	83	55-124	0	
Bromochloromethane	ug/L	ND	20	20	19.8	20.9	99	104	64-124	5	
Bromodichloromethane	ug/L	ND	20	20	16.9	18.3	85	92	67-126	8	
Bromoform	ug/L	ND	20	20	12.3	13.0	62	65	43-114	5	
Bromomethane	ug/L	ND	20	20	3.6	6.2	18	31	10-164	52	CL,R1
Carbon disulfide	ug/L	ND	20	20	14.2	17.0	71	85	37-135	18	
Carbon tetrachloride	ug/L	ND	20	20	15.2	15.8	76	79	60-137	4	
Chlorobenzene	ug/L	ND	20	20	17.8	19.1	89	95	68-119	7	
Chloroethane	ug/L	ND	20	20	16.5	16.9	83	85	54-169	3	
Chloroform	ug/L	ND	20	20	17.6	18.8	88	94	69-113	7	
Chloromethane	ug/L	ND	20	20	15.5	16.9	77	84	43-159	9	
cis-1,2-Dichloroethene	ug/L	ND	20	20	15.7	16.5	78	83	65-121	5	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.5	15.7	78	79	61-120	1	
Dibromochloromethane	ug/L	ND	20	20	16.4	16.9	82	84	56-121	3	
Dibromomethane	ug/L	ND	20	20	20.2	21.9	101	110	56-133	8	CH
Dichlorodifluoromethane	ug/L	ND	20	20	17.6	19.1	88	95	21-175	8	
Ethylbenzene	ug/L	ND	20	20	18.4	18.9	92	94	69-127	2	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	15.3	16.4	77	82	15-133	7	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	17.8	17.6	89	88	70-130	1	
m&p-Xylene	ug/L	ND	40	40	37.6	38.6	94	96	70-129	3	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.2	18.8	76	94	70-130	21	
Methylene Chloride	ug/L	ND	20	20	13.3	14.8	66	74	49-144	11	
n-Butylbenzene	ug/L	ND	20	20	16.3	16.7	82	84	54-128	2	
n-Propylbenzene	ug/L	ND	20	20	17.5	17.5	88	87	62-127	0	
Naphthalene	ug/L	ND	20	20	16.8	18.1	84	90	60-136	7	
o-Xylene	ug/L	ND	20	20	17.3	19.1	86	96	68-126	10	
p-Isopropyltoluene	ug/L	ND	20	20	17.0	17.8	85	89	60-125	5	
sec-Butylbenzene	ug/L	ND	20	20	17.0	17.2	85	86	63-125	1	
Styrene	ug/L	ND	20	20	17.1	18.9	85	95	65-120	10	
tert-Butylbenzene	ug/L	ND	20	20	17.2	17.7	86	88	64-124	3	
Tetrachloroethene	ug/L	ND	20	20	20.1	20.5	100	103	64-123	2	
Toluene	ug/L	ND	20	20	18.3	18.9	91	94	70-130	3	
trans-1,2-Dichloroethene	ug/L	ND	20	20	14.0	15.8	70	79	66-119	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	15.4	16.2	77	81	52-117	5	
Trichloroethene	ug/L	ND	20	20	18.2	18.8	91	94	63-125	3	
Trichlorofluoromethane	ug/L	ND	20	20	20.8	21.8	104	109	43-186	5	
Vinyl acetate	ug/L	ND	20	20	10.9	12.2	55	61	35-150	11	
Vinyl chloride	ug/L	ND	20	20	14.8	16.1	74	80	60-133	8	
Xylene (Total)	ug/L	ND	60	60	54.8	57.7	91	96	69-128	5	
1,2-Dichloroethane-d4 (S)	%.						89	94	80-120		
4-Bromofluorobenzene (S)	%.						107	105	78-122		
Dibromofluoromethane (S)	%.						100	101	80-120		
Toluene-d8 (S)	%.						98	98	80-120		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30324107

QC Batch: 360888
QC Batch Method: EPA 3546
Analysis Method: EPA 8270D by SIM
Analysis Description: 8270D/3546 MSSV PAH by SIM
Associated Lab Samples: 30324107002

METHOD BLANK: 1751534 Matrix: Solid
Associated Lab Samples: 30324107002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	6.6	09/12/19 14:47	
Acenaphthylene	ug/kg	ND	6.6	09/12/19 14:47	
Anthracene	ug/kg	ND	6.6	09/12/19 14:47	
Benzo(a)anthracene	ug/kg	ND	6.6	09/12/19 14:47	
Benzo(a)pyrene	ug/kg	ND	6.6	09/12/19 14:47	
Benzo(b)fluoranthene	ug/kg	ND	6.6	09/12/19 14:47	
Benzo(g,h,i)perylene	ug/kg	ND	6.6	09/12/19 14:47	
Benzo(k)fluoranthene	ug/kg	ND	6.6	09/12/19 14:47	
Chrysene	ug/kg	ND	6.6	09/12/19 14:47	
Dibenz(a,h)anthracene	ug/kg	ND	6.6	09/12/19 14:47	
Fluoranthene	ug/kg	ND	6.6	09/12/19 14:47	
Fluorene	ug/kg	ND	6.6	09/12/19 14:47	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	6.6	09/12/19 14:47	
Naphthalene	ug/kg	ND	6.6	09/12/19 14:47	
Phenanthrene	ug/kg	ND	6.6	09/12/19 14:47	
Pyrene	ug/kg	ND	6.6	09/12/19 14:47	
2-Fluorobiphenyl (S)	%.	85	43-97	09/12/19 14:47	
Terphenyl-d14 (S)	%.	101	56-106	09/12/19 14:47	

LABORATORY CONTROL SAMPLE: 1751535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	132	114	86	48-101	
Acenaphthylene	ug/kg	132	125	95	42-109	
Anthracene	ug/kg	132	130	99	54-110	
Benzo(a)anthracene	ug/kg	132	146	111	59-119	
Benzo(a)pyrene	ug/kg	132	151	115	55-125	
Benzo(b)fluoranthene	ug/kg	132	160	121	54-131	
Benzo(g,h,i)perylene	ug/kg	132	152	115	54-122	
Benzo(k)fluoranthene	ug/kg	132	130	98	57-123	
Chrysene	ug/kg	132	130	99	62-111	
Dibenz(a,h)anthracene	ug/kg	132	146	111	60-124	
Fluoranthene	ug/kg	132	147	112	60-116	
Fluorene	ug/kg	132	119	91	49-110	
Indeno(1,2,3-cd)pyrene	ug/kg	132	148	112	59-122	
Naphthalene	ug/kg	132	110	84	42-97	
Phenanthrene	ug/kg	132	125	95	52-107	
Pyrene	ug/kg	132	144	110	60-117	
2-Fluorobiphenyl (S)	%.			87	43-97	
Terphenyl-d14 (S)	%.			104	56-106	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30324107

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1751536 1751537

Parameter	Units	30323638005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Acenaphthene	ug/kg	64.0	130	129	215	148	116	65	23-129	37	R1
Acenaphthylene	ug/kg	34.0	130	129	166	133	101	76	26-144	22	R1
Anthracene	ug/kg	162	130	129	375	231	164	53	10-166	48	R1
Benzo(a)anthracene	ug/kg	506	130	129	978	504	364	-1	10-175	64	MH,ML,R1
Benzo(a)pyrene	ug/kg	488	130	129	1010	497	400	7	10-175	68	MH,ML,R1
Benzo(b)fluoranthene	ug/kg	685	130	129	1280	585	456	-77	10-175	74	M6,ML,R1
Benzo(g,h,i)perylene	ug/kg	224	130	129	471	236	190	10	10-171	66	MH,R1
Benzo(k)fluoranthene	ug/kg	209	130	129	559	341	270	102	10-160	49	MH,R1
Chrysene	ug/kg	441	130	129	839	452	306	8	10-175	60	MH,ML,R1
Dibenz(a,h)anthracene	ug/kg	78.9	130	129	282	159	157	62	10-149	56	MH,R1
Fluoranthene	ug/kg	1130	130	129	2250	921	862	-165	10-175	84	M6,ML,R1
Fluorene	ug/kg	110	130	129	314	201	158	70	31-136	44	MH,R1
Indeno(1,2,3-cd)pyrene	ug/kg	197	130	129	480	237	218	31	10-151	68	MH,R1
Naphthalene	ug/kg	20.0	130	129	121	107	78	67	10-149	12	
Phenanthrene	ug/kg	814	130	129	1690	655	675	-122	10-175	88	M6,ML,R1
Pyrene	ug/kg	831	130	129	1780	715	733	-89	10-175	85	M6,ML,R1
2-Fluorobiphenyl (S)	%.						80	77	43-97		
Terphenyl-d14 (S)	%.						88	84	56-106		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30324107

QC Batch: 360975 Analysis Method: EPA 8270D by SIM
QC Batch Method: EPA 3510C Analysis Description: 8270D Water PAH by SIM MSSV
Associated Lab Samples: 30324107003, 30324107004, 30324107005

METHOD BLANK: 1752027 Matrix: Water
Associated Lab Samples: 30324107003, 30324107004, 30324107005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	09/12/19 14:12	
Acenaphthylene	ug/L	ND	0.10	09/12/19 14:12	
Anthracene	ug/L	ND	0.10	09/12/19 14:12	
Benzo(a)anthracene	ug/L	ND	0.10	09/12/19 14:12	
Benzo(a)pyrene	ug/L	ND	0.10	09/12/19 14:12	
Benzo(b)fluoranthene	ug/L	ND	0.10	09/12/19 14:12	
Benzo(g,h,i)perylene	ug/L	ND	0.10	09/12/19 14:12	
Benzo(k)fluoranthene	ug/L	ND	0.10	09/12/19 14:12	
Chrysene	ug/L	ND	0.10	09/12/19 14:12	
Dibenz(a,h)anthracene	ug/L	ND	0.10	09/12/19 14:12	
Fluoranthene	ug/L	ND	0.10	09/12/19 14:12	
Fluorene	ug/L	ND	0.10	09/12/19 14:12	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	09/12/19 14:12	
Naphthalene	ug/L	ND	0.10	09/12/19 14:12	
Phenanthrene	ug/L	ND	0.10	09/12/19 14:12	
Pyrene	ug/L	ND	0.10	09/12/19 14:12	
2-Fluorobiphenyl (S)	%.	71	19-97	09/12/19 14:12	
Terphenyl-d14 (S)	%.	86	47-105	09/12/19 14:12	

LABORATORY CONTROL SAMPLE: 1752028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.3	63	34-105	
Acenaphthylene	ug/L	2	1.3	67	30-121	
Anthracene	ug/L	2	1.6	82	39-113	
Benzo(a)anthracene	ug/L	2	2.0	101	51-115	
Benzo(a)pyrene	ug/L	2	2.1	103	46-117	
Benzo(b)fluoranthene	ug/L	2	2.0	99	50-126	
Benzo(g,h,i)perylene	ug/L	2	2.1	107	48-117	
Benzo(k)fluoranthene	ug/L	2	2.0	102	52-118	
Chrysene	ug/L	2	1.8	92	55-107	
Dibenz(a,h)anthracene	ug/L	2	2.0	102	53-118	
Fluoranthene	ug/L	2	2.0	98	45-122	
Fluorene	ug/L	2	1.4	68	36-113	
Indeno(1,2,3-cd)pyrene	ug/L	2	2.1	104	52-117	
Naphthalene	ug/L	2	1.2	58	29-101	
Phenanthrene	ug/L	2	1.6	78	40-109	
Pyrene	ug/L	2	2.0	98	45-122	
2-Fluorobiphenyl (S)	%.			64	19-97	
Terphenyl-d14 (S)	%.			97	47-105	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30324107

QC Batch: 361016
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 30324107002

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 1752104

Parameter	Units	30324107002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	22.3	22.0	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 219063
Pace Project No.: 30324107

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.

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-PA	Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: 360975

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2c	The analyte did not meet the method recommended minimum RF.
A5	Greater than 5% sediment in sample determined by visual observation. Aqueous portion decanted from the sediment and extracted.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.
c2	Acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 219063
Pace Project No.: 30324107

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30324107002	**DP-1**	EPA 3546	360888	EPA 8270D by SIM	361058
30324107003	**DP-2**	EPA 3510C	360975	EPA 8270D by SIM	361050
30324107004	**DP-3**	EPA 3510C	360975	EPA 8270D by SIM	361050
30324107005	**DP-4**	EPA 3510C	360975	EPA 8270D by SIM	361050
30324107001	**DP-1**	EPA 8260C	361052		
30324107003	**DP-2**	EPA 8260C	361052		
30324107004	**DP-3**	EPA 8260C	361052		
30324107005	**DP-4**	EPA 8260C	361052		
30324107006	**Trip Blank**	EPA 8260C	361052		
30324107002	**DP-1**	ASTM D2974-87	361016		

Pace Analytical™
www.pacelabs.com

CH[illegible] Document

The [illegible] ...eted accurately.

WO# : 30324107

30324107

Section A
Required Client Information:

Company:	GeoLogic NY, P.C.
Address:	PO Box 350
	Homer, NY 13077
Email To:	geologicny@geologic.net
Phone: 607-749-5000	Fax: 607-749-5063
Requested Due Date/TAT:	STANDARD

Section B
Required Project Information:

Report To:	Same
Copy To:	
Purchase Order No.:	
Project Name:	Ithaca
Project Number:	219063

Section C

Attention:	
Company Name:	GeoLogic
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	0124-L3, L14

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Requested Analysis Filtered (Y/N)

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Target Compound List Vo	EPA 8270 CP-51 list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-1	WT	G			09/09/19	9:20		3				3					x			001
2	DP-1	SL	G			09/09/19	9:05		2	2									x		002
3	DP-2	WT	G			09/09/19	10:30		4	1			3					x	x		003
4	DP-3	WT	G			09/09/19	12:10		4	1			3					x	x		004
5	DP-4	WT	G			09/09/19	13:10		4	1			3					x	x		005
6																					
7																					
8																					
9	Trip Blank	WT							2				2								006
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Trip Black for lab use : No Charge	/GeoLogic NY PC	9/9/19	14:52	GeoLogic Sample Frig	9/9/19	14:52				
24 HR TURN-AROUND	GeoLogic Sample Frig	9.10.19	1402	[signature]	9.10.19	1402				
	[signature]	9.10	1700	[signature]	9-11-19	0920	5.5	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joseph Menzel

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 9/9/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Geologic Project # # 30324107

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

Label MJS
LIMS Login MJS

Tracking #: 776 2036 5222 0

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 9 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 5.4 °C Correction Factor: +0.1 °C Final Temp: 5.5 °C

Temp should be above freezing to 6°C

pH paper Lot# 10D3581 Date and Initials of person examining contents: MDS 9/17/19

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT SL	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓ ✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous sample field filtered			✓	13.
Organic Samples checked for dechlorination:	✓		✓	14. MDS 9-17-19
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.
All containers meet method preservation requirements.	✓			Initial when completed MJS Date/time of preservation: Lot # of added preservative:
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:			✓	18.
Trip Blank Custody Seals Present			✓	
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

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)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.