



GeoLogic NY, P.C.

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

November 11, 2019

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

Reference: Supplemental Subsurface Evaluation
110 Cherry Street
Ithaca, New York

Dear Mr. Petrillose:

This report summarizes the results of the soil sampling conducted at the above referenced property. The work was undertaken in response to the presence of chlorinated compounds in groundwater samples obtained at the property on September 9, 2019. At that time, only groundwater samples were submitted for analysis because no field evidence of contamination (odor, staining or elevated photoionization detector readings) was noted in the soil.

On October 21, 2019, four test pits were excavated at the locations of the direct push sampling probes. The locations of the direct push sample probes and the test pits are shown on Drawing No. 1. The test pits were excavated utilizing a backhoe. The test pits extended through the over lying fill material into the native silt unit. The fill is about 4 feet thick across the property. Composite soil samples of the excavated soils were generated by taking roughly equal amounts of soil from the four sides of the stockpiles and mixing it in an aluminum foil lined stainless steel bowl (new foil was used at each location). The soil samples were then placed in the containers provided by the laboratory.

The samples were analyzed for volatile organic compounds on the Target Compound list using EPA Method 8260. The results are attached. No volatile compounds were reported present in the samples. Methylene chloride was reported in two of the samples as well as the Trip Blank. Methylene chloride is a common laboratory contaminant. Absent other compounds being detected, the methylene chloride is believed to have originated in the laboratory.

Given no other volatile compounds were detected in the samples analyzed and the fact that the site has never been developed, it is our opinion based on the data obtained on September 9 and October 21, 2019, that the chlorinated compounds detected in the groundwater samples obtained from the property likely migrated on to the property from an off-site location.

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

Sincerely,

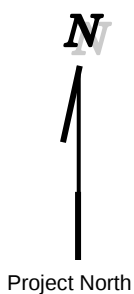
GeoLogic NY, P.C.



Forrest Earl, P.G.
President/Principal Hydrogeologist

Enc: Drawing and Analytical Results

cc: File P:\PROJECTS\2019\219063 - Visum - Cherry St Ithaca\REPORT\Supplimental Subsurface Evaluation 219063.doc



LEGEND

-  SAMPLE LOCATION
 DP – Direct Push
 TP – Test Pit

GeoLogic

GeoLogic NY, P.C.

SAMPLE LOCATION PLAN VACANT LOT 110 CHERRY STREET ITHACA, NEW YORK

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

November 04, 2019

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

RE: Project: 219063
Pace Project No.: 30331396

Dear GeoLogic NY, P.C.:

Enclosed are the analytical results for sample(s) received by the laboratory on October 23, 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 Christner
rachel.christner@pacelabs.com
724-850-5611
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 219063
Pace Project No.: 30331396

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 219063
Pace Project No.: 30331396

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30331396001	TPDP-4	EPA 8260C	ARG	71	PASI-PA
		ASTM D2974-87	SHD	1	PASI-PA
30331396002	TPDP-3	EPA 8260C	ARG	71	PASI-PA
		ASTM D2974-87	SHD	1	PASI-PA
30331396003	TPDP-2	EPA 8260C	ARG	71	PASI-PA
		ASTM D2974-87	SHD	1	PASI-PA
30331396004	TPDP-1	EPA 8260C	ARG	71	PASI-PA
		ASTM D2974-87	SHD	1	PASI-PA
30331396005	Trip Blank	EPA 8260C	LEL	71	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30331396

Date: November 04, 2019

TPDP-4 (Lab ID: 30331396001)

- Sample does not meet method 5035A criteria due to improper sampling. The sample was received in a soil jar. The sample was not preserved within 48 hours from collection. 8260 VOC analysis was subsampled from a jar that contained headspace

TPDP-3 (Lab ID: 30331396002)

- Sample does not meet method 5035A criteria due to improper sampling. The sample was received in a soil jar. The sample was not preserved within 48 hours from collection. 8260 VOC analysis was subsampled from a jar that contained headspace

TPDP-2 (Lab ID: 30331396003)

- Sample does not meet method 5035A criteria due to improper sampling. The sample was received in a soil jar. The sample was not preserved within 48 hours from collection. 8260 VOC analysis was subsampled from a jar that contained headspace

TPDP-1 (Lab ID: 30331396004)

- Sample does not meet method 5035A criteria due to improper sampling. The sample was received in a soil jar. The sample was not preserved within 48 hours from collection. 8260 VOC analysis was subsampled from a jar that contained headspace

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PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30331396

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: GeoLogic NY, P.C.
Date: November 04, 2019

General Information:

4 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.

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.

QC Batch: 369176

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

- TPDP-1 (Lab ID: 30331396004)
 - 2-Chloroethylvinyl ether
- TPDP-2 (Lab ID: 30331396003)
 - 2-Chloroethylvinyl ether
- TPDP-3 (Lab ID: 30331396002)
 - 2-Chloroethylvinyl ether
- TPDP-4 (Lab ID: 30331396001)
 - 2-Chloroethylvinyl ether

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.

QC Batch: 369176

- B: Analyte was detected in the associated method blank.
- BLANK for HBN 369176 [MSV/4708 (Lab ID: 1791319)]
 - Acetone

Laboratory Control Spike:

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

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PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30331396

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: GeoLogic NY, P.C.
Date: November 04, 2019

QC Batch: 369176

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 1791320)
 - 1,2-Dibromo-3-chloropropane
 - Naphthalene

Matrix Spikes:

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

QC Batch: 369176

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

Additional Comments:

Analyte Comments:

QC Batch: 369176

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

- TPDP-1 (Lab ID: 30331396004)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1-Dichloropropene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,1,2-Tetrachloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dibromo-3-chloropropane
 - 1,2-Dichloroethane
 - 1,2-Dibromoethane (EDB)
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,2,3-Trichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,3-Dichloropropane
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2,2-Dichloropropane
 - 2-Butanone (MEK)
 - 2-Chlorotoluene
 - 2-Chloroethylvinyl ether
 - 2-Hexanone
 - 4-Chlorotoluene
 - Carbon disulfide
 - Acetone

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PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30331396

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: GeoLogic NY, P.C.
Date: November 04, 2019

Analyte Comments:

QC Batch: 369176

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

- TPDP-1 (Lab ID: 30331396004)
 - Bromochloromethane
 - Benzene
 - Bromobenzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Dichlorodifluoromethane
 - Dibromomethane
 - Ethylbenzene
 - Hexachloro-1,3-butadiene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - n-Butylbenzene
 - n-Propylbenzene
 - o-Xylene
 - p-Isopropyltoluene
 - sec-Butylbenzene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Trichlorofluoromethane
 - tert-Butylbenzene
 - Vinyl acetate
 - Vinyl chloride
- TPDP-2 (Lab ID: 30331396003)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene

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PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30331396

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: GeoLogic NY, P.C.
Date: November 04, 2019

Analyte Comments:

QC Batch: 369176

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

- TPDP-2 (Lab ID: 30331396003)
 - 1,1-Dichloropropene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,1,2-Tetrachloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dibromo-3-chloropropane
 - 1,2-Dichloroethane
 - 1,2-Dibromoethane (EDB)
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,2,3-Trichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,3-Dichloropropane
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2,2-Dichloropropane
 - 2-Butanone (MEK)
 - 2-Chlorotoluene
 - 2-Chloroethylvinyl ether
 - 2-Hexanone
 - 4-Chlorotoluene
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromobenzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Dichlorodifluoromethane
 - Dibromomethane
 - Ethylbenzene

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Project: 219063
Pace Project No.: 30331396

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: GeoLogic NY, P.C.
Date: November 04, 2019

Analyte Comments:

QC Batch: 369176

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

- TPDP-2 (Lab ID: 30331396003)
 - Hexachloro-1,3-butadiene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - n-Butylbenzene
 - n-Propylbenzene
 - o-Xylene
 - p-Isopropyltoluene
 - sec-Butylbenzene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Trichlorofluoromethane
 - tert-Butylbenzene
 - Vinyl acetate
 - Vinyl chloride
- TPDP-3 (Lab ID: 30331396002)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1-Dichloropropene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,1,2-Tetrachloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dibromo-3-chloropropane
 - 1,2-Dichloroethane
 - 1,2-Dibromoethane (EDB)
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,2,3-Trichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,3-Dichloropropane
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene

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PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30331396

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: GeoLogic NY, P.C.
Date: November 04, 2019

Analyte Comments:

QC Batch: 369176

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

- TPDP-3 (Lab ID: 30331396002)
 - 2,2-Dichloropropane
 - 2-Butanone (MEK)
 - 2-Chlorotoluene
 - 2-Chloroethylvinyl ether
 - 2-Hexanone
 - 4-Chlorotoluene
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromobenzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Dichlorodifluoromethane
 - Dibromomethane
 - Ethylbenzene
 - Hexachloro-1,3-butadiene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - n-Butylbenzene
 - n-Propylbenzene
 - o-Xylene
 - p-Isopropyltoluene
 - sec-Butylbenzene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene

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PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30331396

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: GeoLogic NY, P.C.
Date: November 04, 2019

Analyte Comments:

QC Batch: 369176

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

- TPDP-3 (Lab ID: 30331396002)
 - Trichloroethene
 - Trichlorofluoromethane
 - tert-Butylbenzene
 - Vinyl acetate
 - Vinyl chloride
- TPDP-4 (Lab ID: 30331396001)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1-Dichloropropene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,1,2-Tetrachloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dibromo-3-chloropropane
 - 1,2-Dichloroethane
 - 1,2-Dibromoethane (EDB)
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,2,3-Trichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,3-Dichloropropane
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2,2-Dichloropropane
 - 2-Butanone (MEK)
 - 2-Chlorotoluene
 - 2-Chloroethylvinyl ether
 - 2-Hexanone
 - 4-Chlorotoluene
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromobenzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride

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PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30331396

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: GeoLogic NY, P.C.
Date: November 04, 2019

Analyte Comments:

QC Batch: 369176

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

- TPDP-4 (Lab ID: 30331396001)
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Dichlorodifluoromethane
 - Dibromomethane
 - Ethylbenzene
 - Hexachloro-1,3-butadiene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - n-Butylbenzene
 - n-Propylbenzene
 - o-Xylene
 - p-Isopropyltoluene
 - sec-Butylbenzene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Trichlorofluoromethane
 - tert-Butylbenzene
 - Vinyl acetate
 - Vinyl chloride

2c: RF below method recommended limit.

- TPDP-1 (Lab ID: 30331396004)
 - Acetone
 - Bromomethane
- TPDP-2 (Lab ID: 30331396003)
 - Acetone
 - Bromomethane
- TPDP-3 (Lab ID: 30331396002)
 - Acetone
 - Bromomethane

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PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30331396

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: GeoLogic NY, P.C.
Date: November 04, 2019

Analyte Comments:

QC Batch: 369176

2c: RF below method recommended limit.

- TPDP-4 (Lab ID: 30331396001)
 - Acetone
 - Bromomethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30331396

Method: EPA 8260C
Description: 8260C MSV
Client: GeoLogic NY, P.C.
Date: November 04, 2019

General Information:

1 sample was 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: 368129

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

- BLANK (Lab ID: 1786345)
 - 1,1-Dichloroethene
 - 1,3-Dichloropropane
 - Acetone
 - Chloroethane
 - Dichlorodifluoromethane
 - Hexachloro-1,3-butadiene
 - Vinyl chloride
 - trans-1,3-Dichloropropene
- LCS (Lab ID: 1786346)
 - 1,1-Dichloroethene
 - 1,3-Dichloropropane
 - Acetone
 - Chloroethane
 - Dichlorodifluoromethane
 - Hexachloro-1,3-butadiene
 - Vinyl chloride
 - trans-1,3-Dichloropropene
- MS (Lab ID: 1786481)
 - 1,1-Dichloroethene
 - 1,3-Dichloropropane
 - Acetone
 - Chloroethane
 - Dichlorodifluoromethane
 - Hexachloro-1,3-butadiene
 - Vinyl chloride
 - trans-1,3-Dichloropropene
- MSD (Lab ID: 1786482)
 - 1,1-Dichloroethene
 - 1,3-Dichloropropane

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PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30331396

Method: EPA 8260C
Description: 8260C MSV
Client: GeoLogic NY, P.C.
Date: November 04, 2019

QC Batch: 368129

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

- Acetone
- Chloroethane
- Dichlorodifluoromethane
- Hexachloro-1,3-butadiene
- Vinyl chloride
- trans-1,3-Dichloropropene
- Trip Blank (Lab ID: 30331396005)
 - 1,1-Dichloroethene
 - 1,3-Dichloropropane
 - Acetone
 - Chloroethane
 - Dichlorodifluoromethane
 - Hexachloro-1,3-butadiene
 - Vinyl chloride
 - trans-1,3-Dichloropropene

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: 368129

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40197674004

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

- MS (Lab ID: 1786481)
 - 2-Chloroethylvinyl ether
- MSD (Lab ID: 1786482)
 - 2-Chloroethylvinyl ether

R1: RPD value was outside control limits.

- MSD (Lab ID: 1786482)
 - Chloroethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 219063
Pace Project No.: 30331396

Method: EPA 8260C
Description: 8260C MSV
Client: GeoLogic NY, P.C.
Date: November 04, 2019

Additional Comments:

Analyte Comments:

QC Batch: 368129

3c: The analyte did not meet the method recommended minimum RF.

- BLANK (Lab ID: 1786345)
 - Acetone
 - Chloroethane
- LCS (Lab ID: 1786346)
 - Acetone
 - Chloroethane
- MS (Lab ID: 1786481)
 - Acetone
 - Chloroethane
- MSD (Lab ID: 1786482)
 - Acetone
 - Chloroethane
- Trip Blank (Lab ID: 30331396005)
 - Acetone
 - Chloroethane

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: 219063
Pace Project No.: 30331396

Sample: TPDP-4 **Lab ID: 30331396001** Collected: 10/21/19 08:15 Received: 10/23/19 09:20 Matrix: Solid

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

Comments: • Sample does not meet method 5035A criteria due to improper sampling. The sample was received in a soil jar. The sample was not preserved within 48 hours from collection. 8260 VOC analysis was subsampled from a jar that contained headspace

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	ND	ug/kg	15.4	1	11/04/19 11:04	11/04/19 12:22	67-64-1	1c,2c,B
Benzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	71-43-2	1c
Bromobenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	108-86-1	1c
Bromochloromethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	74-97-5	1c
Bromodichloromethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	75-27-4	1c
Bromoform	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	75-25-2	1c
Bromomethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	74-83-9	1c,2c
2-Butanone (MEK)	ND	ug/kg	15.4	1	11/04/19 11:04	11/04/19 12:22	78-93-3	1c
n-Butylbenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	98-06-6	1c
Carbon disulfide	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	56-23-5	1c
Chlorobenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	108-90-7	1c
Chloroethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	15.4	1	11/04/19 11:04	11/04/19 12:22	110-75-8	1c,CH
Chloroform	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	67-66-3	1c
Chloromethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	96-12-8	1c,L2
Dibromochloromethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	106-93-4	1c
Dibromomethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	10061-02-6	1c
Ethylbenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	87-68-3	1c
2-Hexanone	ND	ug/kg	15.4	1	11/04/19 11:04	11/04/19 12:22	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	99-87-6	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30331396

Sample: TPDP-4 **Lab ID:** 30331396001 **Collected:** 10/21/19 08:15 **Received:** 10/23/19 09:20 **Matrix:** Solid

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

Comments: • Sample does not meet method 5035A criteria due to improper sampling. The sample was received in a soil jar. The sample was not preserved within 48 hours from collection. 8260 VOC analysis was subsampled from a jar that contained headspace

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level								
Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Methylene Chloride	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	15.4	1	11/04/19 11:04	11/04/19 12:22	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	1634-04-4	1c
Naphthalene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	91-20-3	1c,L2
n-Propylbenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	103-65-1	1c
Styrene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	79-34-5	1c
Tetrachloroethene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	127-18-4	1c
Toluene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	79-00-5	1c
Trichloroethene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	108-67-8	1c
Vinyl acetate	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	108-05-4	1c
Vinyl chloride	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	75-01-4	1c
Xylene (Total)	ND	ug/kg	23.2	1	11/04/19 11:04	11/04/19 12:22	1330-20-7	
m&p-Xylene	ND	ug/kg	15.4	1	11/04/19 11:04	11/04/19 12:22	179601-23-1	1c
o-Xylene	ND	ug/kg	7.7	1	11/04/19 11:04	11/04/19 12:22	95-47-6	1c
Surrogates								
Toluene-d8 (S)	115	%.	70-130	1	11/04/19 11:04	11/04/19 12:22	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	70-130	1	11/04/19 11:04	11/04/19 12:22	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	70-130	1	11/04/19 11:04	11/04/19 12:22	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130	1	11/04/19 11:04	11/04/19 12:22	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	21.4	%	0.10	1	10/25/19 12:35
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30331396

Sample: TPDP-3 **Lab ID: 30331396002** Collected: 10/21/19 08:30 Received: 10/23/19 09:20 Matrix: Solid

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

Comments: • Sample does not meet method 5035A criteria due to improper sampling. The sample was received in a soil jar. The sample was not preserved within 48 hours from collection. 8260 VOC analysis was subsampled from a jar that contained headspace

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	ND	ug/kg	13.2	1	11/04/19 11:04	11/04/19 14:32	67-64-1	1c,2c,B
Benzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	71-43-2	1c
Bromobenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	108-86-1	1c
Bromochloromethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	74-97-5	1c
Bromodichloromethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	75-27-4	1c
Bromoform	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	75-25-2	1c
Bromomethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	74-83-9	1c,2c
2-Butanone (MEK)	ND	ug/kg	13.2	1	11/04/19 11:04	11/04/19 14:32	78-93-3	1c
n-Butylbenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	98-06-6	1c
Carbon disulfide	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	56-23-5	1c
Chlorobenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	108-90-7	1c
Chloroethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	13.2	1	11/04/19 11:04	11/04/19 14:32	110-75-8	1c,CH
Chloroform	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	67-66-3	1c
Chloromethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	96-12-8	1c,L2
Dibromochloromethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	106-93-4	1c
Dibromomethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	10061-02-6	1c
Ethylbenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	87-68-3	1c
2-Hexanone	ND	ug/kg	13.2	1	11/04/19 11:04	11/04/19 14:32	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	99-87-6	1c

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ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30331396

Sample: TPDP-3 **Lab ID: 30331396002** Collected: 10/21/19 08:30 Received: 10/23/19 09:20 Matrix: Solid

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

Comments: • Sample does not meet method 5035A criteria due to improper sampling. The sample was received in a soil jar. The sample was not preserved within 48 hours from collection. 8260 VOC analysis was subsampled from a jar that contained headspace

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Methylene Chloride	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	13.2	1	11/04/19 11:04	11/04/19 14:32	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	1634-04-4	1c
Naphthalene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	91-20-3	1c,L2
n-Propylbenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	103-65-1	1c
Styrene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	79-34-5	1c
Tetrachloroethene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	127-18-4	1c
Toluene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	79-00-5	1c
Trichloroethene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	108-67-8	1c
Vinyl acetate	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	108-05-4	1c
Vinyl chloride	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	75-01-4	1c
Xylene (Total)	ND	ug/kg	19.8	1	11/04/19 11:04	11/04/19 14:32	1330-20-7	
m&p-Xylene	ND	ug/kg	13.2	1	11/04/19 11:04	11/04/19 14:32	179601-23-1	1c
o-Xylene	ND	ug/kg	6.6	1	11/04/19 11:04	11/04/19 14:32	95-47-6	1c
Surrogates								
Toluene-d8 (S)	100	%.	70-130	1	11/04/19 11:04	11/04/19 14:32	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130	1	11/04/19 11:04	11/04/19 14:32	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%.	70-130	1	11/04/19 11:04	11/04/19 14:32	17060-07-0	
Dibromofluoromethane (S)	105	%.	70-130	1	11/04/19 11:04	11/04/19 14:32	1868-53-7	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture	13.8	%	0.10	1	10/25/19 12:35
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30331396

Sample: TPDP-2 **Lab ID: 30331396003** Collected: 10/21/19 08:45 Received: 10/23/19 09:20 Matrix: Solid

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

Comments: • Sample does not meet method 5035A criteria due to improper sampling. The sample was received in a soil jar. The sample was not preserved within 48 hours from collection. 8260 VOC analysis was subsampled from a jar that contained headspace

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	ND	ug/kg	11.6	1	11/04/19 11:04	11/04/19 13:14	67-64-1	1c,2c,B
Benzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	71-43-2	1c
Bromobenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	108-86-1	1c
Bromochloromethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	74-97-5	1c
Bromodichloromethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	75-27-4	1c
Bromoform	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	75-25-2	1c
Bromomethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	74-83-9	1c,2c
2-Butanone (MEK)	ND	ug/kg	11.6	1	11/04/19 11:04	11/04/19 13:14	78-93-3	1c
n-Butylbenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	98-06-6	1c
Carbon disulfide	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	56-23-5	1c
Chlorobenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	108-90-7	1c
Chloroethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	11.6	1	11/04/19 11:04	11/04/19 13:14	110-75-8	1c,CH
Chloroform	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	67-66-3	1c
Chloromethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	96-12-8	1c,L2
Dibromochloromethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	106-93-4	1c
Dibromomethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	10061-02-6	1c
Ethylbenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	87-68-3	1c
2-Hexanone	ND	ug/kg	11.6	1	11/04/19 11:04	11/04/19 13:14	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	99-87-6	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30331396

Sample: TPDP-2 **Lab ID:** 30331396003 **Collected:** 10/21/19 08:45 **Received:** 10/23/19 09:20 **Matrix:** Solid

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

Comments: • Sample does not meet method 5035A criteria due to improper sampling. The sample was received in a soil jar. The sample was not preserved within 48 hours from collection. 8260 VOC analysis was subsampled from a jar that contained headspace

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Methylene Chloride	10.1	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.6	1	11/04/19 11:04	11/04/19 13:14	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	1634-04-4	1c
Naphthalene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	91-20-3	1c,L2
n-Propylbenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	103-65-1	1c
Styrene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	79-34-5	1c
Tetrachloroethene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	127-18-4	1c
Toluene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	79-00-5	1c
Trichloroethene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	108-67-8	1c
Vinyl acetate	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	108-05-4	1c
Vinyl chloride	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	75-01-4	1c
Xylene (Total)	ND	ug/kg	17.5	1	11/04/19 11:04	11/04/19 13:14	1330-20-7	
m&p-Xylene	ND	ug/kg	11.6	1	11/04/19 11:04	11/04/19 13:14	179601-23-1	1c
o-Xylene	ND	ug/kg	5.8	1	11/04/19 11:04	11/04/19 13:14	95-47-6	1c
Surrogates								
Toluene-d8 (S)	102	%.	70-130	1	11/04/19 11:04	11/04/19 13:14	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130	1	11/04/19 11:04	11/04/19 13:14	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	70-130	1	11/04/19 11:04	11/04/19 13:14	17060-07-0	
Dibromofluoromethane (S)	93	%.	70-130	1	11/04/19 11:04	11/04/19 13:14	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	12.5	%	0.10	1	10/25/19 12:35
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30331396

Sample: TPDP-1 **Lab ID: 30331396004** Collected: 10/21/19 08:50 Received: 10/23/19 09:20 Matrix: Solid

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

Comments: • Sample does not meet method 5035A criteria due to improper sampling. The sample was received in a soil jar. The sample was not preserved within 48 hours from collection. 8260 VOC analysis was subsampled from a jar that contained headspace

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Acetone	ND	ug/kg	9.4	1	11/04/19 11:04	11/04/19 13:40	67-64-1	1c,2c,B
Benzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	71-43-2	1c
Bromobenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	108-86-1	1c
Bromochloromethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	74-97-5	1c
Bromodichloromethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	75-27-4	1c
Bromoform	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	75-25-2	1c
Bromomethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	74-83-9	1c,2c
2-Butanone (MEK)	ND	ug/kg	9.4	1	11/04/19 11:04	11/04/19 13:40	78-93-3	1c
n-Butylbenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	104-51-8	1c
sec-Butylbenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	135-98-8	1c
tert-Butylbenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	98-06-6	1c
Carbon disulfide	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	56-23-5	1c
Chlorobenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	108-90-7	1c
Chloroethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	75-00-3	1c
2-Chloroethylvinyl ether	ND	ug/kg	9.4	1	11/04/19 11:04	11/04/19 13:40	110-75-8	1c,CH
Chloroform	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	67-66-3	1c
Chloromethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	74-87-3	1c
2-Chlorotoluene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	95-49-8	1c
4-Chlorotoluene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	106-43-4	1c
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	96-12-8	1c,L2
Dibromochloromethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	124-48-1	1c
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	106-93-4	1c
Dibromomethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	74-95-3	1c
1,2-Dichlorobenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	106-46-7	1c
Dichlorodifluoromethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	75-71-8	1c
1,1-Dichloroethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	78-87-5	1c
1,3-Dichloropropane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	142-28-9	1c
2,2-Dichloropropane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	594-20-7	1c
1,1-Dichloropropene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	563-58-6	1c
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	10061-02-6	1c
Ethylbenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	100-41-4	1c
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	87-68-3	1c
2-Hexanone	ND	ug/kg	9.4	1	11/04/19 11:04	11/04/19 13:40	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	98-82-8	1c
p-Isopropyltoluene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	99-87-6	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30331396

Sample: TPDP-1 **Lab ID: 30331396004** Collected: 10/21/19 08:50 Received: 10/23/19 09:20 Matrix: Solid

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

Comments: • Sample does not meet method 5035A criteria due to improper sampling. The sample was received in a soil jar. The sample was not preserved within 48 hours from collection. 8260 VOC analysis was subsampled from a jar that contained headspace

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A						
Methylene Chloride	5.7	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.4	1	11/04/19 11:04	11/04/19 13:40	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	1634-04-4	1c
Naphthalene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	91-20-3	1c,L2
n-Propylbenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	103-65-1	1c
Styrene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	630-20-6	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	79-34-5	1c
Tetrachloroethene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	127-18-4	1c
Toluene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	108-88-3	1c
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	87-61-6	1c
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	79-00-5	1c
Trichloroethene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	79-01-6	1c
Trichlorofluoromethane	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	75-69-4	1c
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	108-67-8	1c
Vinyl acetate	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	108-05-4	1c
Vinyl chloride	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	75-01-4	1c
Xylene (Total)	ND	ug/kg	14.2	1	11/04/19 11:04	11/04/19 13:40	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1	11/04/19 11:04	11/04/19 13:40	179601-23-1	1c
o-Xylene	ND	ug/kg	4.7	1	11/04/19 11:04	11/04/19 13:40	95-47-6	1c
Surrogates								
Toluene-d8 (S)	120	%.	70-130	1	11/04/19 11:04	11/04/19 13:40	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	70-130	1	11/04/19 11:04	11/04/19 13:40	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130	1	11/04/19 11:04	11/04/19 13:40	17060-07-0	
Dibromofluoromethane (S)	96	%.	70-130	1	11/04/19 11:04	11/04/19 13:40	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	12.0	%	0.10	1	10/25/19 12:35
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30331396

Sample: Trip Blank		Lab ID: 30331396005	Collected: 10/21/19 00:01	Received: 10/23/19 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		10/28/19 16:20	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/28/19 16:20	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/28/19 16:20	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/28/19 16:20	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/28/19 16:20	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/28/19 16:20	75-35-4	CH
1,1-Dichloropropene	ND	ug/L	1.0	1		10/28/19 16:20	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/28/19 16:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/28/19 16:20	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/28/19 16:20	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/28/19 16:20	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/28/19 16:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/28/19 16:20	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/28/19 16:20	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/28/19 16:20	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/28/19 16:20	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/28/19 16:20	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/28/19 16:20	142-28-9	CH
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/28/19 16:20	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/28/19 16:20	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/28/19 16:20	78-93-3	
2-Chloroethylvinyl ether	ND	ug/L	2.0	1		10/28/19 16:20	110-75-8	c2
2-Chlorotoluene	ND	ug/L	1.0	1		10/28/19 16:20	95-49-8	
2-Hexanone	ND	ug/L	10.0	1		10/28/19 16:20	591-78-6	
4-Chlorotoluene	ND	ug/L	1.0	1		10/28/19 16:20	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/28/19 16:20	108-10-1	
Acetone	ND	ug/L	10.0	1		10/28/19 16:20	67-64-1	3c,CH
Benzene	ND	ug/L	1.0	1		10/28/19 16:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/28/19 16:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/28/19 16:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/28/19 16:20	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/28/19 16:20	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/28/19 16:20	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/28/19 16:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/28/19 16:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/28/19 16:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/28/19 16:20	75-00-3	3c,CH
Chloroform	ND	ug/L	1.0	1		10/28/19 16:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/28/19 16:20	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/28/19 16:20	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/28/19 16:20	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/28/19 16:20	75-71-8	CH
Ethylbenzene	ND	ug/L	1.0	1		10/28/19 16:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/28/19 16:20	87-68-3	CH
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/28/19 16:20	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/28/19 16:20	1634-04-4	
Methylene Chloride	2.1	ug/L	1.0	1		10/28/19 16:20	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 219063
Pace Project No.: 30331396

Sample: Trip Blank		Lab ID: 30331396005		Collected: 10/21/19 00:01		Received: 10/23/19 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		10/28/19 16:20	91-20-3		
Styrene	ND	ug/L	1.0	1		10/28/19 16:20	100-42-5		
Tetrachloroethene	ND	ug/L	1.0	1		10/28/19 16:20	127-18-4		
Toluene	ND	ug/L	1.0	1		10/28/19 16:20	108-88-3		
Trichloroethene	ND	ug/L	1.0	1		10/28/19 16:20	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		10/28/19 16:20	75-69-4		
Vinyl acetate	ND	ug/L	1.0	1		10/28/19 16:20	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		10/28/19 16:20	75-01-4	CH	
Xylene (Total)	ND	ug/L	3.0	1		10/28/19 16:20	1330-20-7		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/28/19 16:20	156-59-2		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/28/19 16:20	10061-01-5		
m&p-Xylene	ND	ug/L	2.0	1		10/28/19 16:20	179601-23-1		
n-Butylbenzene	ND	ug/L	1.0	1		10/28/19 16:20	104-51-8		
n-Propylbenzene	ND	ug/L	1.0	1		10/28/19 16:20	103-65-1		
o-Xylene	ND	ug/L	1.0	1		10/28/19 16:20	95-47-6		
p-Isopropyltoluene	ND	ug/L	1.0	1		10/28/19 16:20	99-87-6		
sec-Butylbenzene	ND	ug/L	1.0	1		10/28/19 16:20	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		10/28/19 16:20	98-06-6		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/28/19 16:20	156-60-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/28/19 16:20	10061-02-6	CH	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122	1		10/28/19 16:20	460-00-4		
1,2-Dichloroethane-d4 (S)	98	%.	80-120	1		10/28/19 16:20	17060-07-0		
Toluene-d8 (S)	95	%.	80-120	1		10/28/19 16:20	2037-26-5		
Dibromofluoromethane (S)	100	%.	80-120	1		10/28/19 16:20	1868-53-7		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30331396

QC Batch: 369176 Analysis Method: EPA 8260C
QC Batch Method: EPA 5035A Analysis Description: 8260C MSV 5035 Low
Associated Lab Samples: 30331396001, 30331396002, 30331396003, 30331396004

METHOD BLANK: 1791319 Matrix: Solid
Associated Lab Samples: 30331396001, 30331396002, 30331396003, 30331396004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	11/04/19 11:57	
1,1,1-Trichloroethane	ug/kg	ND	5.0	11/04/19 11:57	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	11/04/19 11:57	
1,1,2-Trichloroethane	ug/kg	ND	5.0	11/04/19 11:57	
1,1-Dichloroethane	ug/kg	ND	5.0	11/04/19 11:57	
1,1-Dichloroethene	ug/kg	ND	5.0	11/04/19 11:57	
1,1-Dichloropropene	ug/kg	ND	5.0	11/04/19 11:57	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	11/04/19 11:57	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	11/04/19 11:57	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	11/04/19 11:57	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	11/04/19 11:57	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	11/04/19 11:57	
1,2-Dichlorobenzene	ug/kg	ND	5.0	11/04/19 11:57	
1,2-Dichloroethane	ug/kg	ND	5.0	11/04/19 11:57	
1,2-Dichloropropane	ug/kg	ND	5.0	11/04/19 11:57	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	11/04/19 11:57	
1,3-Dichlorobenzene	ug/kg	ND	5.0	11/04/19 11:57	
1,3-Dichloropropane	ug/kg	ND	5.0	11/04/19 11:57	
1,4-Dichlorobenzene	ug/kg	ND	5.0	11/04/19 11:57	
2,2-Dichloropropane	ug/kg	ND	5.0	11/04/19 11:57	
2-Butanone (MEK)	ug/kg	ND	10.0	11/04/19 11:57	
2-Chloroethylvinyl ether	ug/kg	ND	10.0	11/04/19 11:57	
2-Chlorotoluene	ug/kg	ND	5.0	11/04/19 11:57	
2-Hexanone	ug/kg	ND	10.0	11/04/19 11:57	
4-Chlorotoluene	ug/kg	ND	5.0	11/04/19 11:57	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	11/04/19 11:57	
Acetone	ug/kg	12.1	10.0	11/04/19 11:57	
Benzene	ug/kg	ND	5.0	11/04/19 11:57	
Bromobenzene	ug/kg	ND	5.0	11/04/19 11:57	
Bromochloromethane	ug/kg	ND	5.0	11/04/19 11:57	
Bromodichloromethane	ug/kg	ND	5.0	11/04/19 11:57	
Bromoform	ug/kg	ND	5.0	11/04/19 11:57	
Bromomethane	ug/kg	ND	5.0	11/04/19 11:57	
Carbon disulfide	ug/kg	ND	5.0	11/04/19 11:57	
Carbon tetrachloride	ug/kg	ND	5.0	11/04/19 11:57	
Chlorobenzene	ug/kg	ND	5.0	11/04/19 11:57	
Chloroethane	ug/kg	ND	5.0	11/04/19 11:57	
Chloroform	ug/kg	ND	5.0	11/04/19 11:57	
Chloromethane	ug/kg	ND	5.0	11/04/19 11:57	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	11/04/19 11:57	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	11/04/19 11:57	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30331396

METHOD BLANK: 1791319 Matrix: Solid
Associated Lab Samples: 30331396001, 30331396002, 30331396003, 30331396004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	11/04/19 11:57	
Dibromomethane	ug/kg	ND	5.0	11/04/19 11:57	
Dichlorodifluoromethane	ug/kg	ND	5.0	11/04/19 11:57	
Ethylbenzene	ug/kg	ND	5.0	11/04/19 11:57	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	11/04/19 11:57	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	11/04/19 11:57	
m&p-Xylene	ug/kg	ND	10.0	11/04/19 11:57	
Methyl-tert-butyl ether	ug/kg	ND	5.0	11/04/19 11:57	
Methylene Chloride	ug/kg	ND	5.0	11/04/19 11:57	
n-Butylbenzene	ug/kg	ND	5.0	11/04/19 11:57	
n-Propylbenzene	ug/kg	ND	5.0	11/04/19 11:57	
Naphthalene	ug/kg	ND	5.0	11/04/19 11:57	
o-Xylene	ug/kg	ND	5.0	11/04/19 11:57	
p-Isopropyltoluene	ug/kg	ND	5.0	11/04/19 11:57	
sec-Butylbenzene	ug/kg	ND	5.0	11/04/19 11:57	
Styrene	ug/kg	ND	5.0	11/04/19 11:57	
tert-Butylbenzene	ug/kg	ND	5.0	11/04/19 11:57	
Tetrachloroethene	ug/kg	ND	5.0	11/04/19 11:57	
Toluene	ug/kg	ND	5.0	11/04/19 11:57	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	11/04/19 11:57	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	11/04/19 11:57	
Trichloroethene	ug/kg	ND	5.0	11/04/19 11:57	
Trichlorofluoromethane	ug/kg	ND	5.0	11/04/19 11:57	
Vinyl acetate	ug/kg	ND	5.0	11/04/19 11:57	
Vinyl chloride	ug/kg	ND	5.0	11/04/19 11:57	
Xylene (Total)	ug/kg	ND	15.0	11/04/19 11:57	
1,2-Dichloroethane-d4 (S)	%	122	70-130	11/04/19 11:57	
4-Bromofluorobenzene (S)	%	101	70-130	11/04/19 11:57	
Dibromofluoromethane (S)	%	115	70-130	11/04/19 11:57	
Toluene-d8 (S)	%	89	70-130	11/04/19 11:57	

LABORATORY CONTROL SAMPLE: 1791320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	20	16.4	82	70-130	
1,1,1-Trichloroethane	ug/kg	20	17.3	86	62-113	
1,1,2,2-Tetrachloroethane	ug/kg	20	14.8	74	70-130	
1,1,2-Trichloroethane	ug/kg	20	16.0	80	70-130	
1,1-Dichloroethane	ug/kg	20	15.3	76	63-110	
1,1-Dichloroethene	ug/kg	20	17.3	87	45-124	
1,1-Dichloropropene	ug/kg	20	15.6	78	65-109	
1,2,3-Trichlorobenzene	ug/kg	20	14.5	72	70-130	
1,2,4-Trichlorobenzene	ug/kg	20	14.9	74	70-130	
1,2,4-Trimethylbenzene	ug/kg	20	17.2	86	70-130	

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QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30331396

LABORATORY CONTROL SAMPLE: 1791320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	20	12.6	63	70-130	L2
1,2-Dibromoethane (EDB)	ug/kg	20	16.8	84	70-130	
1,2-Dichlorobenzene	ug/kg	20	16.6	83	70-130	
1,2-Dichloroethane	ug/kg	20	17.3	86	57-110	
1,2-Dichloropropane	ug/kg	20	18.4	92	62-111	
1,3,5-Trimethylbenzene	ug/kg	20	16.9	85	70-130	
1,3-Dichlorobenzene	ug/kg	20	17.2	86	70-130	
1,3-Dichloropropane	ug/kg	20	16.1	81	70-130	
1,4-Dichlorobenzene	ug/kg	20	16.7	84	70-130	
2,2-Dichloropropane	ug/kg	20	16.4	82	43-119	
2-Butanone (MEK)	ug/kg	20	13.6	68	46-117	
2-Chloroethylvinyl ether	ug/kg	20	16.5	82	19-169	
2-Chlorotoluene	ug/kg	20	16.8	84	70-130	
2-Hexanone	ug/kg	20	14.1	71	58-115	
4-Chlorotoluene	ug/kg	20	17.1	85	67-112	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	15.2	76	40-136	
Acetone	ug/kg	20	18.0	90	36-163	
Benzene	ug/kg	20	16.6	83	63-110	
Bromobenzene	ug/kg	20	16.5	83	66-109	
Bromochloromethane	ug/kg	20	15.4	77	67-114	
Bromodichloromethane	ug/kg	20	17.7	89	68-119	
Bromoform	ug/kg	20	14.6	73	63-107	
Bromomethane	ug/kg	20	21.2	106	12-166	
Carbon disulfide	ug/kg	20	15.4	77	52-106	
Carbon tetrachloride	ug/kg	20	15.8	79	59-114	
Chlorobenzene	ug/kg	20	17.0	85	70-130	
Chloroethane	ug/kg	20	16.3	81	56-160	
Chloroform	ug/kg	20	16.0	80	65-108	
Chloromethane	ug/kg	20	21.7	109	33-148	
cis-1,2-Dichloroethene	ug/kg	20	15.8	79	61-107	
cis-1,3-Dichloropropene	ug/kg	20	17.6	88	62-106	
Dibromochloromethane	ug/kg	20	15.7	78	67-108	
Dibromomethane	ug/kg	20	17.8	89	67-119	
Dichlorodifluoromethane	ug/kg	20	20.7	104	10-175	
Ethylbenzene	ug/kg	20	17.4	87	68-109	
Hexachloro-1,3-butadiene	ug/kg	20	15.8	79	57-119	
Isopropylbenzene (Cumene)	ug/kg	20	17.2	86	70-130	
m&p-Xylene	ug/kg	40	35.0	87	70-130	
Methyl-tert-butyl ether	ug/kg	20	13.7	68	61-110	
Methylene Chloride	ug/kg	20	17.3	87	42-135	
n-Butylbenzene	ug/kg	20	17.3	86	65-129	
n-Propylbenzene	ug/kg	20	16.6	83	66-123	
Naphthalene	ug/kg	20	13.0	65	70-130	L2
o-Xylene	ug/kg	20	17.3	86	70-130	
p-Isopropyltoluene	ug/kg	20	18.3	92	70-130	
sec-Butylbenzene	ug/kg	20	17.1	86	68-131	
Styrene	ug/kg	20	16.3	82	70-130	

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QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30331396

LABORATORY CONTROL SAMPLE: 1791320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	20	17.8	89	70-130	
Tetrachloroethene	ug/kg	20	18.0	90	64-114	
Toluene	ug/kg	20	16.7	84	68-108	
trans-1,2-Dichloroethene	ug/kg	20	17.2	86	61-108	
trans-1,3-Dichloropropene	ug/kg	20	16.2	81	64-102	
Trichloroethene	ug/kg	20	16.7	84	61-112	
Trichlorofluoromethane	ug/kg	20	18.4	92	44-171	
Vinyl acetate	ug/kg	20	13.0	65	10-175	
Vinyl chloride	ug/kg	20	21.9	110	54-142	
Xylene (Total)	ug/kg	60	52.2	87	70-130	
1,2-Dichloroethane-d4 (S)	%.			97	70-130	
4-Bromofluorobenzene (S)	%.			101	70-130	
Dibromofluoromethane (S)	%.			90	70-130	
Toluene-d8 (S)	%.			103	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 219063

Pace Project No.: 30331396

QC Batch: 368129

Analysis Method: EPA 8260C

QC Batch Method: EPA 8260C

Analysis Description: 8260C MSV

Associated Lab Samples: 30331396005

METHOD BLANK: 1786345

Matrix: Water

Associated Lab Samples: 30331396005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/28/19 14:43	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/28/19 14:43	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/28/19 14:43	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/28/19 14:43	
1,1-Dichloroethane	ug/L	ND	1.0	10/28/19 14:43	
1,1-Dichloroethene	ug/L	ND	1.0	10/28/19 14:43	CH
1,1-Dichloropropene	ug/L	ND	1.0	10/28/19 14:43	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/28/19 14:43	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/28/19 14:43	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/28/19 14:43	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/28/19 14:43	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/28/19 14:43	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/28/19 14:43	
1,2-Dichloroethane	ug/L	ND	1.0	10/28/19 14:43	
1,2-Dichloropropane	ug/L	ND	1.0	10/28/19 14:43	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/28/19 14:43	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/28/19 14:43	
1,3-Dichloropropane	ug/L	ND	1.0	10/28/19 14:43	CH
1,4-Dichlorobenzene	ug/L	ND	1.0	10/28/19 14:43	
2,2-Dichloropropane	ug/L	ND	1.0	10/28/19 14:43	
2-Butanone (MEK)	ug/L	ND	10.0	10/28/19 14:43	
2-Chloroethylvinyl ether	ug/L	ND	2.0	10/28/19 14:43	
2-Chlorotoluene	ug/L	ND	1.0	10/28/19 14:43	
2-Hexanone	ug/L	ND	10.0	10/28/19 14:43	
4-Chlorotoluene	ug/L	ND	1.0	10/28/19 14:43	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/28/19 14:43	
Acetone	ug/L	ND	10.0	10/28/19 14:43	3c, CH
Benzene	ug/L	ND	1.0	10/28/19 14:43	
Bromobenzene	ug/L	ND	1.0	10/28/19 14:43	
Bromochloromethane	ug/L	ND	1.0	10/28/19 14:43	
Bromodichloromethane	ug/L	ND	1.0	10/28/19 14:43	
Bromoform	ug/L	ND	1.0	10/28/19 14:43	
Bromomethane	ug/L	ND	1.0	10/28/19 14:43	
Carbon disulfide	ug/L	ND	1.0	10/28/19 14:43	
Carbon tetrachloride	ug/L	ND	1.0	10/28/19 14:43	
Chlorobenzene	ug/L	ND	1.0	10/28/19 14:43	
Chloroethane	ug/L	ND	1.0	10/28/19 14:43	3c, CH
Chloroform	ug/L	ND	1.0	10/28/19 14:43	
Chloromethane	ug/L	ND	1.0	10/28/19 14:43	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/28/19 14:43	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/28/19 14:43	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30331396

METHOD BLANK: 1786345

Matrix: Water

Associated Lab Samples: 30331396005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	10/28/19 14:43	
Dibromomethane	ug/L	ND	1.0	10/28/19 14:43	
Dichlorodifluoromethane	ug/L	ND	1.0	10/28/19 14:43	CH
Ethylbenzene	ug/L	ND	1.0	10/28/19 14:43	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/28/19 14:43	CH
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/28/19 14:43	
m&p-Xylene	ug/L	ND	2.0	10/28/19 14:43	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/28/19 14:43	
Methylene Chloride	ug/L	ND	1.0	10/28/19 14:43	
n-Butylbenzene	ug/L	ND	1.0	10/28/19 14:43	
n-Propylbenzene	ug/L	ND	1.0	10/28/19 14:43	
Naphthalene	ug/L	ND	2.0	10/28/19 14:43	
o-Xylene	ug/L	ND	1.0	10/28/19 14:43	
p-Isopropyltoluene	ug/L	ND	1.0	10/28/19 14:43	
sec-Butylbenzene	ug/L	ND	1.0	10/28/19 14:43	
Styrene	ug/L	ND	1.0	10/28/19 14:43	
tert-Butylbenzene	ug/L	ND	1.0	10/28/19 14:43	
Tetrachloroethene	ug/L	ND	1.0	10/28/19 14:43	
Toluene	ug/L	ND	1.0	10/28/19 14:43	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/28/19 14:43	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/28/19 14:43	CH
Trichloroethene	ug/L	ND	1.0	10/28/19 14:43	
Trichlorofluoromethane	ug/L	ND	1.0	10/28/19 14:43	
Vinyl acetate	ug/L	ND	1.0	10/28/19 14:43	
Vinyl chloride	ug/L	ND	1.0	10/28/19 14:43	CH
Xylene (Total)	ug/L	ND	3.0	10/28/19 14:43	
1,2-Dichloroethane-d4 (S)	%	100	80-120	10/28/19 14:43	
4-Bromofluorobenzene (S)	%	102	78-122	10/28/19 14:43	
Dibromofluoromethane (S)	%	97	80-120	10/28/19 14:43	
Toluene-d8 (S)	%	100	80-120	10/28/19 14:43	

LABORATORY CONTROL SAMPLE: 1786346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.2	106	70-130	
1,1,1-Trichloroethane	ug/L	20	18.2	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.6	98	70-130	
1,1,2-Trichloroethane	ug/L	20	20.0	100	70-130	
1,1-Dichloroethane	ug/L	20	19.9	99	68-121	
1,1-Dichloroethene	ug/L	20	18.8	94	63-129	CH
1,1-Dichloropropene	ug/L	20	20.0	100	70-130	
1,2,3-Trichlorobenzene	ug/L	20	20.5	102	70-130	
1,2,4-Trichlorobenzene	ug/L	20	20.5	103	70-130	
1,2,4-Trimethylbenzene	ug/L	20	20.2	101	70-130	

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QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30331396

LABORATORY CONTROL SAMPLE: 1786346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	20	17.9	89	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	105	70-130	
1,2-Dichlorobenzene	ug/L	20	19.7	99	70-130	
1,2-Dichloroethane	ug/L	20	19.3	97	67-117	
1,2-Dichloropropane	ug/L	20	20.7	104	69-121	
1,3,5-Trimethylbenzene	ug/L	20	20.2	101	70-130	
1,3-Dichlorobenzene	ug/L	20	19.7	98	70-130	
1,3-Dichloropropane	ug/L	20	21.5	107	70-130	CH
1,4-Dichlorobenzene	ug/L	20	19.8	99	70-130	
2,2-Dichloropropane	ug/L	20	20.2	101	54-130	
2-Butanone (MEK)	ug/L	20	20.5	102	59-128	
2-Chloroethylvinyl ether	ug/L	20	19.5	98	63-120	
2-Chlorotoluene	ug/L	20	19.5	98	70-130	
2-Hexanone	ug/L	20	23.4	117	49-145	
4-Chlorotoluene	ug/L	20	19.2	96	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	23.4	117	63-126	
Acetone	ug/L	20	26.8	134	37-150	3c, CH
Benzene	ug/L	20	19.7	98	70-130	
Bromobenzene	ug/L	20	20.3	101	70-130	
Bromochloromethane	ug/L	20	20.2	101	59-137	
Bromodichloromethane	ug/L	20	21.9	110	70-130	
Bromoform	ug/L	20	18.2	91	65-130	
Bromomethane	ug/L	20	25.2	126	45-148	
Carbon disulfide	ug/L	20	20.6	103	55-123	
Carbon tetrachloride	ug/L	20	19.9	99	69-126	
Chlorobenzene	ug/L	20	20.8	104	70-130	
Chloroethane	ug/L	20	27.3	137	68-146	3c, CH
Chloroform	ug/L	20	19.8	99	69-116	
Chloromethane	ug/L	20	24.9	125	56-129	
cis-1,2-Dichloroethene	ug/L	20	20.2	101	66-118	
cis-1,3-Dichloropropene	ug/L	20	22.5	112	70-130	
Dibromochloromethane	ug/L	20	21.2	106	70-130	
Dibromomethane	ug/L	20	20.3	102	70-130	
Dichlorodifluoromethane	ug/L	20	27.0	135	44-171	CH
Ethylbenzene	ug/L	20	20.4	102	70-130	
Hexachloro-1,3-butadiene	ug/L	20	21.3	106	73-141	CH
Isopropylbenzene (Cumene)	ug/L	20	20.5	102	70-130	
m&p-Xylene	ug/L	40	41.0	102	70-130	
Methyl-tert-butyl ether	ug/L	20	21.5	107	70-130	
Methylene Chloride	ug/L	20	21.5	107	65-124	
n-Butylbenzene	ug/L	20	21.7	109	71-138	
n-Propylbenzene	ug/L	20	20.9	105	70-130	
Naphthalene	ug/L	20	19.8	99	69-135	
o-Xylene	ug/L	20	20.5	102	70-130	
p-Isopropyltoluene	ug/L	20	20.4	102	70-130	
sec-Butylbenzene	ug/L	20	20.7	103	70-130	
Styrene	ug/L	20	21.1	106	70-130	

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QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30331396

LABORATORY CONTROL SAMPLE: 1786346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	20	20.8	104	70-130	
Tetrachloroethene	ug/L	20	20.9	104	70-130	
Toluene	ug/L	20	21.1	106	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.1	96	64-123	
trans-1,3-Dichloropropene	ug/L	20	21.8	109	68-119	CH
Trichloroethene	ug/L	20	19.9	100	70-130	
Trichlorofluoromethane	ug/L	20	26.4	132	64-163	
Vinyl acetate	ug/L	20	14.9	75	45-129	
Vinyl chloride	ug/L	20	26.1	130	70-130	CH
Xylene (Total)	ug/L	60	61.4	102	70-130	
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			100	78-122	
Dibromofluoromethane (S)	%			96	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1786481 1786482

Parameter	Units	40197674004 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	<1.0	20	20	17.4	18.2	87	91	52-123	5	
1,1,1-Trichloroethane	ug/L	<1.0	20	20	15.7	17.1	79	85	67-127	8	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	20	20	15.8	17.7	79	89	55-118	11	
1,1,2-Trichloroethane	ug/L	<1.0	20	20	16.8	17.8	84	89	60-117	6	
1,1-Dichloroethane	ug/L	<1.0	20	20	16.0	17.2	80	86	68-118	7	
1,1-Dichloroethene	ug/L	<1.0	20	20	15.6	16.6	78	83	62-126	6	CH
1,1-Dichloropropene	ug/L	<1.0	20	20	17.3	18.7	86	94	55-129	8	
1,2,3-Trichlorobenzene	ug/L	<2.0	20	20	15.9	17.3	80	86	49-128	8	
1,2,4-Trichlorobenzene	ug/L	<1.0	20	20	15.8	17.0	79	85	60-128	7	
1,2,4-Trimethylbenzene	ug/L	<1.0	20	20	16.2	17.8	81	89	70-130	9	
1,2-Dibromo-3-chloropropane	ug/L	<5.0	20	20	13.9	14.9	70	75	46-130	7	
1,2-Dibromoethane (EDB)	ug/L	<1.0	20	20	17.4	18.5	87	92	69-124	6	
1,2-Dichlorobenzene	ug/L	<1.0	20	20	15.8	17.1	79	85	66-116	8	
1,2-Dichloroethane	ug/L	<1.0	20	20	15.9	16.8	80	84	67-117	5	
1,2-Dichloropropane	ug/L	<1.0	20	20	17.3	18.4	86	92	61-128	6	
1,3,5-Trimethylbenzene	ug/L	<1.0	20	20	16.4	17.6	82	88	70-130	7	
1,3-Dichlorobenzene	ug/L	<1.0	20	20	15.9	17.4	80	87	67-117	9	
1,3-Dichloropropane	ug/L	<1.0	20	20	17.3	18.6	86	93	62-117	8	CH
1,4-Dichlorobenzene	ug/L	<1.0	20	20	15.7	17.3	78	86	68-116	10	
2,2-Dichloropropane	ug/L	<1.0	20	20	16.3	17.4	81	87	44-134	7	
2-Butanone (MEK)	ug/L	<10.0	20	20	17.3	17.6	87	88	63-175	1	
2-Chloroethylvinyl ether	ug/L	<2.0	20	20	ND	ND	0	0	10-105		ML
2-Chlorotoluene	ug/L	<1.0	20	20	16.1	17.6	80	88	50-124	9	
2-Hexanone	ug/L	<10.0	20	20	18.2	18.4	91	92	65-151	1	
4-Chlorotoluene	ug/L	<1.0	20	20	15.3	16.8	76	84	49-127	10	
4-Methyl-2-pentanone (MIBK)	ug/L	<10.0	20	20	17.2	18.3	86	92	66-149	6	

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QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30331396

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1786481 1786482											
Parameter	Units	40197674004		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD
		Result	Conc.	Spike	Spike						Qual
Acetone	ug/L	11.5	20	20	20	32.0	32.1	102	103	10-175	0 3c, CH
Benzene	ug/L	<1.0	20	20	20	16.9	18.2	84	91	67-119	8
Bromobenzene	ug/L	<1.0	20	20	20	16.4	18.1	82	91	55-124	10
Bromochloromethane	ug/L	<1.0	20	20	20	17.5	19.1	88	95	64-124	8
Bromodichloromethane	ug/L	<1.0	20	20	20	16.9	17.7	85	88	67-126	4
Bromoform	ug/L	<1.0	20	20	20	12.4	13.6	62	68	43-114	9
Bromomethane	ug/L	<1.0	20	20	20	15.0	18.4	72	89	10-164	21
Carbon disulfide	ug/L	<1.0	20	20	20	14.4	15.7	72	79	37-135	9
Carbon tetrachloride	ug/L	<1.0	20	20	20	16.7	18.1	84	91	60-137	8
Chlorobenzene	ug/L	<1.0	20	20	20	17.2	18.4	86	92	68-119	7
Chloroethane	ug/L	<1.0	20	20	20	24.1	33.3	121	167	54-169	32 3c, CH, R1
Chloroform	ug/L	<1.0	20	20	20	16.5	18.2	83	91	69-113	10
Chloromethane	ug/L	<1.0	20	20	20	19.8	21.2	99	106	43-159	7
cis-1,2-Dichloroethene	ug/L	<1.0	20	20	20	15.9	16.8	80	84	65-121	6
cis-1,3-Dichloropropene	ug/L	<1.0	20	20	20	16.5	17.9	82	89	61-120	8
Dibromochloromethane	ug/L	<1.0	20	20	20	15.5	16.8	78	84	56-121	8
Dibromomethane	ug/L	<1.0	20	20	20	16.9	17.7	84	89	56-133	5
Dichlorodifluoromethane	ug/L	<1.0	20	20	20	19.2	20.2	96	101	21-175	5 CH
Ethylbenzene	ug/L	<1.0	20	20	20	16.8	18.3	84	92	69-127	9
Hexachloro-1,3-butadiene	ug/L	<1.0	20	20	20	15.7	17.2	79	86	15-133	9 CH
Isopropylbenzene (Cumene)	ug/L	<1.0	20	20	20	16.4	18.2	82	91	70-130	11
m&p-Xylene	ug/L	<2.0	40	40	40	33.9	36.3	85	91	70-129	7
Methyl-tert-butyl ether	ug/L	<1.0	20	20	20	15.3	16.5	77	82	70-130	7
Methylene Chloride	ug/L	<1.0	20	20	20	16.7	17.2	83	86	49-144	3
n-Butylbenzene	ug/L	<1.0	20	20	20	16.3	18.1	82	91	54-128	10
n-Propylbenzene	ug/L	<1.0	20	20	20	16.7	18.3	83	92	62-127	9
Naphthalene	ug/L	<2.0	20	20	20	14.6	15.9	73	80	60-136	9
o-Xylene	ug/L	<1.0	20	20	20	16.6	18.0	83	90	68-126	8
p-Isopropyltoluene	ug/L	<1.0	20	20	20	16.2	18.0	81	90	60-125	11
sec-Butylbenzene	ug/L	<1.0	20	20	20	16.5	18.1	83	91	63-125	9
Styrene	ug/L	<1.0	20	20	20	17.1	18.2	86	91	65-120	6
tert-Butylbenzene	ug/L	<1.0	20	20	20	16.4	18.2	82	91	64-124	10
Tetrachloroethene	ug/L	<1.0	20	20	20	17.8	18.5	89	92	64-123	4
Toluene	ug/L	<1.0	20	20	20	17.7	19.2	89	96	70-130	8
trans-1,2-Dichloroethene	ug/L	<1.0	20	20	20	15.3	16.4	76	82	66-119	7
trans-1,3-Dichloropropene	ug/L	<1.0	20	20	20	17.3	18.4	86	92	52-117	6 CH
Trichloroethene	ug/L	<1.0	20	20	20	16.6	18.1	83	90	63-125	9
Trichlorofluoromethane	ug/L	<1.0	20	20	20	21.2	22.3	106	111	43-186	5
Vinyl acetate	ug/L	<1.0	20	20	20	9.7	10.4	48	52	35-150	7
Vinyl chloride	ug/L	<1.0	20	20	20	20.6	22.2	103	111	60-133	8 CH
Xylene (Total)	ug/L	<3.0	60	60	60	50.5	54.3	84	90	69-128	7
1,2-Dichloroethane-d4 (S)	%							93	98	80-120	
4-Bromofluorobenzene (S)	%							97	102	78-122	
Dibromofluoromethane (S)	%							98	100	80-120	
Toluene-d8 (S)	%							101	103	80-120	

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QUALITY CONTROL DATA

Project: 219063
Pace Project No.: 30331396

QC Batch: 367918 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30331396001, 30331396002, 30331396003, 30331396004

SAMPLE DUPLICATE: 1785047

Parameter	Units	30329916011 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	21.5	21.9	2	

SAMPLE DUPLICATE: 1785048

Parameter	Units	30329916012 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	28.0	28.2	1	

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QUALIFIERS

Project: 219063
Pace Project No.: 30331396

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: 369176

[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 RF below method recommended limit.
 3c The analyte did not meet the method recommended minimum RF.
 B Analyte was detected in the associated method blank.
 CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
 L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
 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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 219063
Pace Project No.: 30331396

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30331396001	TPDP-4	EPA 5035A	369176	EPA 8260C	369184
30331396002	TPDP-3	EPA 5035A	369176	EPA 8260C	369184
30331396003	TPDP-2	EPA 5035A	369176	EPA 8260C	369184
30331396004	TPDP-1	EPA 5035A	369176	EPA 8260C	369184
30331396005	Trip Blank	EPA 8260C	368129		
30331396001	TPDP-4	ASTM D2974-87	367918		
30331396002	TPDP-3	ASTM D2974-87	367918		
30331396003	TPDP-2	ASTM D2974-87	367918		
30331396004	TPDP-1	ASTM D2974-87	367918		

REPORT OF LABORATORY ANALYSIS

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W0# : 30331396

I-OF-CUSTODY / Analytical Request Document

I-Of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



30331396

Section A

Required Client Information:

Company: Pace Analytical
 Address: PO Box 350
 Email To: Hunter, N.Y.C.
 Phone: 800-741-1000
 Project Name: 219063
 Requested Due Date/TAT: 5 days

Section C

Invoice Information:

Report To: Sum
 Copy To: Sum
 Company Name: Sum
 Address: Sum
 Pace Quote Reference: 219063
 Pace Project Manager: Sum
 Pace Profile #: 219063

Section B

Regulatory Agency

Regulatory Agency: NY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER Oil
 Site Location: NY
 STATE: NY

Page: 2134465 of 2

Section D Required Client Information				Section E Requested Analysis Filtered (Y/N)				Section F Requested Analysis Filtered (Y/N)				Section G Requested Analysis Filtered (Y/N)				
ITEM #	Matrix Codes MATRIX CODE DW WT WW P SL OL WP AR TS OT	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Y/N	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
		COMPOSITE START	COMPOSITE END/GRAB													
1	TPDP-4			SC		0-1-NOV-15	2									
2	TPDP-3			SC		0-1-NOV-15	2									
3	TPDP-2			SC		0-1-NOV-15	2									
4	TPDP-1			SC		0-1-NOV-15	2									
5																
6																
7	Trip Blank			WT			2									
8																
9																
10																
11																
12																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Trip Blank From Pace Analytical	Allye	10/23/19	13:00	Allye	10/23/19	13:00	
125 only, do not fill	Allye	10/23/19	17:00	Allye	10/23/19	17:00	
bill	Allye	10/23/19	17:00	Allye	10/23/19	17:00	

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Forest Sam		
SIGNATURE of SAMPLER:	<i>[Signature]</i>		
DATE Signed (MM/DD/YY):	10-23-19		

Temp in °C	Received on	Custody	Sealed Cooler	Samples Intact

*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.

FALL-Q-020rev.07, 15-May-2007