



May 25, 2017

Erich Weissbart, P.G.
Land and Chemicals Division
U.S. Environmental Protection Agency, Region III
701 Mapes Road
Fort Meade, MD 20755

Re: Quarterly Status Report No. 2 - Offsite Area
Former Kop-Flex Facility Site, Hanover, Maryland

Dear Erich:

On behalf of EMERSUB 16 LLC, a subsidiary of Emerson Electric Co., WSP USA Inc. (WSP) is submitting this status report describing the investigation and remediation activities conducted in the first quarter 2017 in the offsite portion of the Former Kop-Flex Facility Site in Hanover, Maryland. The report also describes the activities planned for the second quarter of 2017. If you have any questions, please do not hesitate to contact us at 703-709-6500.

Yours sincerely,

A handwritten signature in black ink that reads "Robert E. Johnson".

Robert E. Johnson, PhD.
Senior Technical Manager

Encl.

cc: Mr. Stephen Clarke, Emerson Electric Co
Ms. Richelle Hanson, Maryland Department of the Environment
Sheila Harvey, Esquire, Pillsbury Winthrop Shaw Pittman

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QUARTERLY PROGRESS REPORT NO. 2 – OFFSITE AREA

FORMER KOP-FLEX FACILITY SITE JANUARY 2017 THROUGH MARCH 2017

Site Name: Former Kop-Flex Facility
Site Address: 7565 Harmans Road
Hanover, Maryland 21076

Consultant: WSP USA Inc.
Address: 13530 Dulles Technology Drive, Suite 300
Herndon, Virginia 20171
Phone No.: (703) 709-6500

Project Coordinator: Eric Johnson, WSP USA
Alternate: Lisa Bryda, WSP USA

1.0 Offsite Activities Conducted During January 2017 through March 2017

1.1 Residential Well Sampling

- Based on the November 2016 sampling results for the potable well at 1227 Old Camp Meade Road, EMERSUB 16 and WSP proposed to contact the owners of residential properties in the area that were believed to be using private wells as their potable water source to seek access for collecting a sample(s) from the well. In late February 2017, WSP sent, via Federal Express, access request letters to the identified property owners. This correspondence requested approval from the homeowner to access the property to collect a water sample(s) and, if necessary, gather information concerning the well and treatment equipment for the home water system.
- On March 28, 2017, water samples were collected from the following residences with potable wells designated for re-sampling:
 - 1227 Old Camp Meade Road
 - 1245 Old Camp Meade Road

The locations of these properties are shown in Figure 1. The residential wells at other properties in the area were not sampled due to the inability to obtain access from the homeowner.

The analytical results for these residential well samples were received on April 12, 2017. A copy of the certified laboratory analytical report is included in Enclosure A. The water sample collected from the well at 1245 Old Camp Meade Road had a 1,1-dichloroethene (DCE) concentration of 104 micrograms per liter ($\mu\text{g}/\text{l}$), which exceeded the U.S. Environmental Protection Agency (EPA) federal drinking water standard and Maryland Department of the Environment (MDE) groundwater quality standard of 7 $\mu\text{g}/\text{l}$. In addition, the 1,4-dioxane concentration of 40.4 $\mu\text{g}/\text{l}$ in the sample was above the MDE risk-based action level of 6.7 $\mu\text{g}/\text{l}$ for this compound. WSP verbally communicated the analytical results for this water sample to the homeowner and MDE on April 14, 2017. Given concentrations of site-related volatile organic compounds (VOCs) greater than the drinking water standards, EMERSUB 16 and WSP immediately initiated the regular delivery of bottled water to the home for cooking and drinking purposes.

Site-related VOCs were present in the post-treatment water sample from the well at 1227 Old Camp Meade Road at trace to very low levels that were below their respective comparative criteria. The concentration of 1,4-dioxane in the treated water was 3.4 $\mu\text{g}/\text{l}$. WSP communicated the analytical results for this water sample to the homeowner and MDE.

1.2 Replacement Well In Andorick Acres Sub-Division

- During the week of February 20, 2017, WSP provided oversight for the installation and connection of a replacement potable well and abandonment of the existing VOC-impacted well at the residence at 7932 Andorick Drive (Figure 1).



The replacement well was completed to a depth of 159 feet below ground surface (BGS) and screened from 144 feet to 158 feet BGS. After completing the installation, the well was developed by over-pumping followed by the performance of a well yield test. Field observations during these activities indicated the replacement well had been successfully developed (*i.e.*, clear discharge) and achieved the yield criteria specified in the Maryland well construction standards.

The newly developed well was disinfected with chlorine a couple days later in accordance with the requirements specified in the Maryland well construction standards and standard industry practices. Following completion of the disinfection process, a suitable electric submersible pump was placed down the well, and the piping and electrical line were connected to the pressure tank and control box and pressure switch system, respectively. After a suitable time period, the home water system was run for approximately 24 hours to flush the well and piping of residual chlorine and remnant chemical products used during the installation process.

- Abandonment of the existing potable well was completed at the same time as the setting of the pump in the new well, and involved removal of the pump and electrical line and sealing of the well casing with bentonite grout emplaced under pressure using a tremie pipe. The well casing was cut approximately 0.5-feet below grade, and the hole filled to existing grade with top-soil and seeded.
- Upon notification by the property owner, a representative of the Anne Arundel County Bureau of Environmental Health (County BEH) visited the residence on March 8th to collect water samples to ensure the well discharge was safe for domestic use. The water samples collected by the County BEH were analyzed for various parameters, including:
 - Bacteriological constituents
 - Nitrate
 - Gross alpha radiation

The gross alpha level in the water sample was 17.7 picocuries per liter (pCi/l), which slightly exceeded the USEPA primary drinking water standard of 15 pCi/l. The analytical results for the other constituents were below the applicable federal and state standards. In accordance with the requirements specified in the sampling result transmittal letter from the County BEH, the homeowner retained a local water treatment company to check and service the existing water softener unit at the residence. After the treatment system is serviced and brought back on-line, a sample of the treated water would be collected for gross alpha analysis to ensure the water softener is functioning properly.

1.3 Quarterly Offsite Groundwater Sampling

- The offsite monitoring wells were sampled the week of February 20, 2017, using a passive sampling device (HydraSleeve™). The sample retrieval depths for each monitoring well are consistent with those from the December 2016 monitoring event.
- The analytical results for the offsite monitoring well samples are presented in Table 1. (A copy of the certified laboratory analytical report for these samples is provided in Enclosure B.)

No site-related VOCs were detected at concentrations above the groundwater comparative criteria in the samples from the two shallow wells (MW-25-40 and MW-28-45) screened in the unconfined zone of the Lower Patapsco aquifer (Figure 2). For the wells completed in the deeper confined zone, the total concentration of site-related VOCs in the MW-25-130 sample (280.2 µg/l) are slightly higher than the total VOC concentration of 141 µg/l for the deeper well at this location (MW-25-192). The lower VOC concentrations in the sample from the MW-25-192 well is consistent with the vertical distribution of constituents determined from groundwater profiling at other deep well locations. The sampling data for the deep monitoring wells located further to the south and east of the MW-25 location contained very low concentrations of site-related VOCs (Figure 2).

2.0 Planned Offsite Activities For Next Reporting Period (April 2017 Through June 2017)

- Continue to communicate with Anne Arundel County Department of Public Works regarding its review of the Right-of-Way permit applications for the additional groundwater monitoring wells. Upon issuance of the permits, begin installation of monitoring wells in accordance with the approved Offsite Groundwater Monitoring Plan.

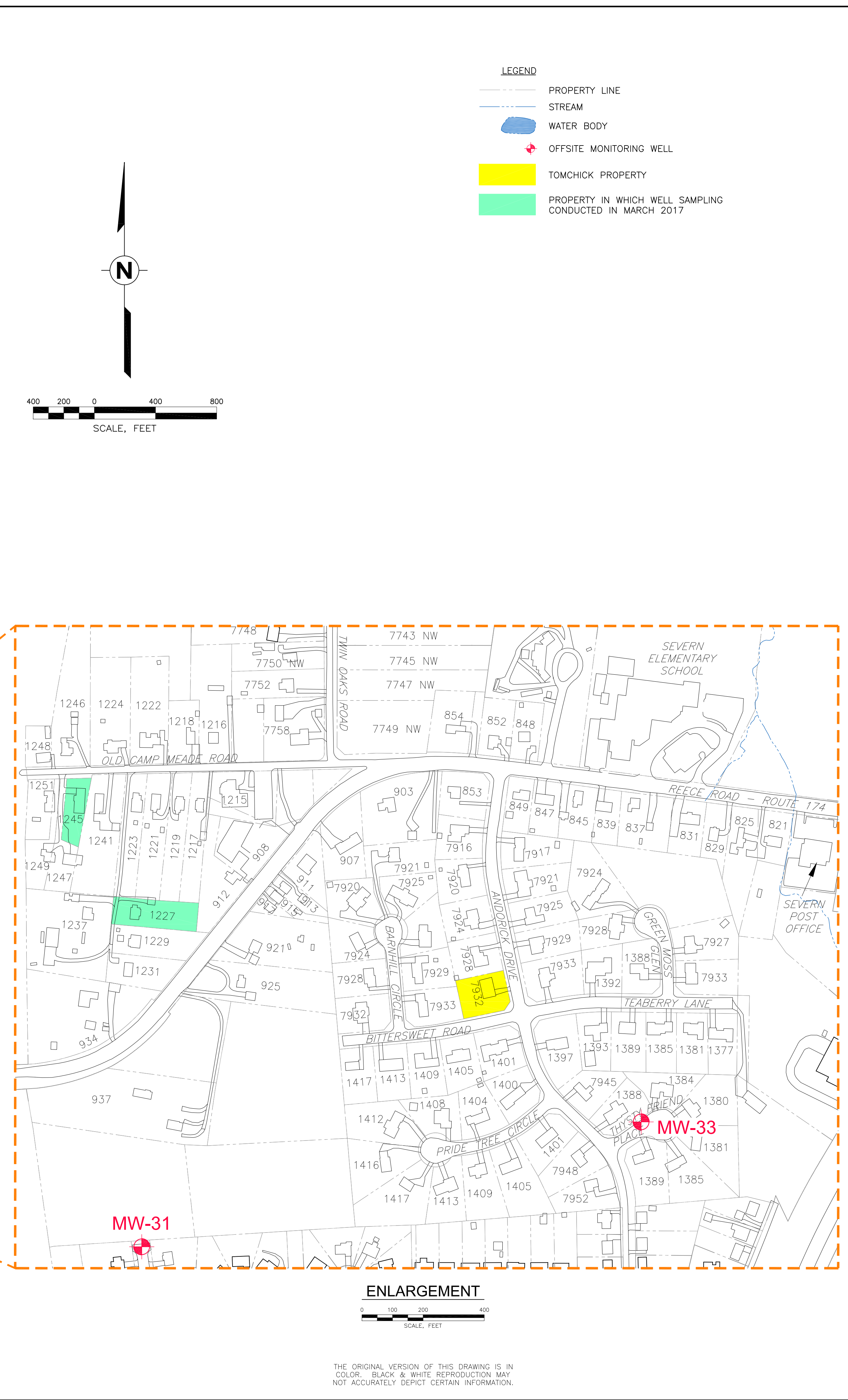
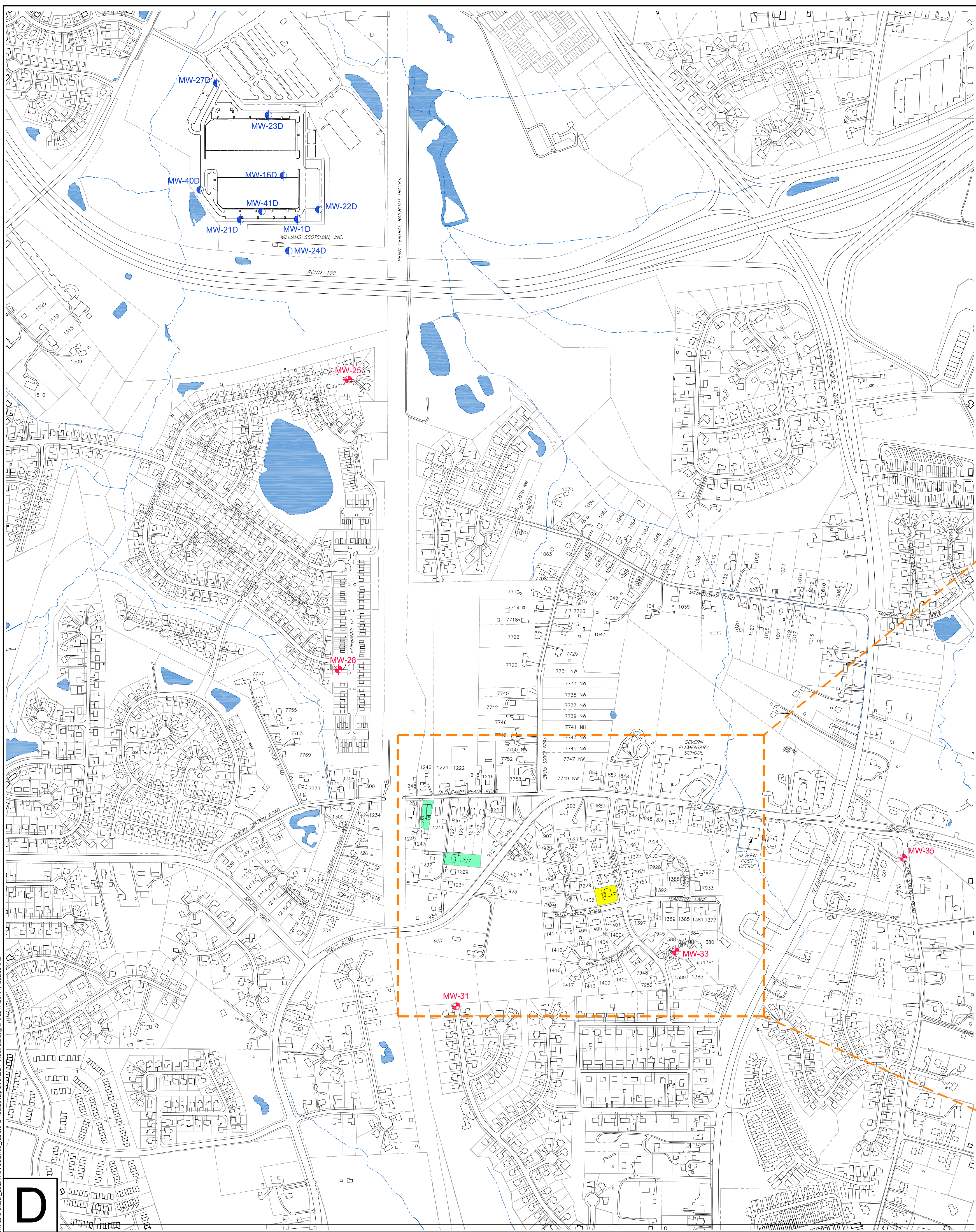


- Develop a sampling plan for residential wells greater than 150 feet in depth or of unknown depth in the general vicinity of Old Camp Meade Road based on the results for the recent well water samples collected in the area. Upon approval of the sampling plan by MDE, prepare and mail access/notification letters to the homeowners, and schedule the collection of well water samples.
- Provide assistance to the homeowner at 7932 Andorick Drive for obtaining the Certificate of Potability from the County BEH for the newly installed replacement well, including the collection and analysis of untreated and treated water samples from the well as deemed necessary.
- Complete the public water service connection for the residence at 1063 Minnetonka Road and subsequent abandonment of the private water supply well on the property.
- Conduct quarterly sampling of the offsite monitoring wells in residential areas south of Maryland Route 100 in early May 2017.

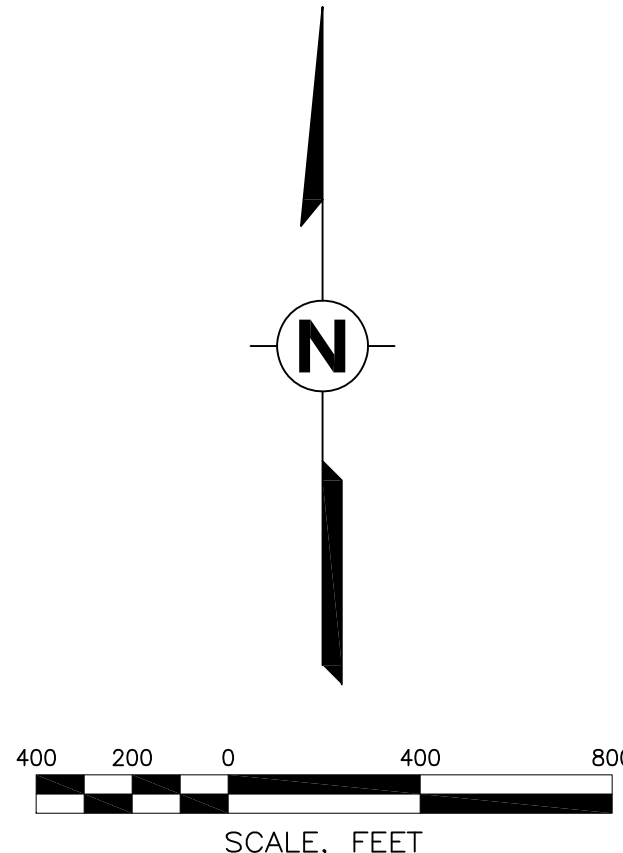
3.0 Key Personnel/Facility Changes

During the reporting period, there were no changes to either key project personnel or conditions relevant to the performance of the ongoing work at the site.

Figureg



- LEGEND**
- PROPERTY LINE
 - STREAM
 - WATER BODY
 - OFFSITE MONITORING WELL
 - TOMCHICK PROPERTY
 - PROPERTY IN WHICH WELL SAMPLING CONDUCTED IN MARCH 2017



ENLARGEMENT
0 100 200 400
SCALE, FEET

THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

PROPERTIES WITH RESIDENTIAL WELLS		FORMER KOP-FLEX FACILITY SITE	HANOVER, MARYLAND
PREPARED FOR		EMERSUB 16 LLC	
ST. LOUIS, MISSOURI			
WSP	WSP USA, Inc. 13530 DULLES TECHNOLOGY DR., SUITE 300 HERRIDON, VA 20117 TEL: +1 703.709.6500		
FIGURE 1		Drawing Number	
314V0390-030			
REVISIONS	DESCRIPTION	DATE	BY
REV	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMITTING	5/19/2017	[Signature]
2	REVISED TO REFLECT FIELD DATA	5/19/2017	[Signature]
3	REVISED TO REFLECT FIELD DATA	5/19/2017	[Signature]
4	REVISED TO REFLECT FIELD DATA	5/19/2017	[Signature]
5	REVISED TO REFLECT FIELD DATA	5/19/2017	[Signature]

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D



MW-25			
	30' - 40'	120' - 130'	182' - 192'
1,1-DCA	ND	7.2	14
1,2-DCA	ND	1.7	ND
1,1-DCE	ND	194	63.3
1,4-Dioxane	3	69.1	52.1
1,1,1-TCA	ND	7	11.6

MW-28		
	35' - 45'	200' - 210'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	4.6
1,4-Dioxane	ND	3
1,1,1-TCA	ND	ND

MW-31	
	270' - 280'
1,1-DCA	ND
1,2-DCA	ND
1,1-DCE	ND
1,4-Dioxane	ND
1,1,1-TCA	ND

MW-33		
	225' - 235'	285' - 295'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	4
1,4-Dioxane	ND	6.8
1,1,1-TCA	ND	ND

MW-35	
	288' - 298'
1,1-DCA	ND
1,2-DCA	ND
1,1-DCE	ND
1,4-Dioxane	ND
1,1,1-TCA	ND

LEGEND

- PROPERTY LINE
- STREAM
- WATER BODY
- DEEP MONITORING WELL
- RECOVERY WELL
- WELL IDENTIFICATION
- SCREENED INTERVAL (FT-BGS)
- SAMPLE RESULTS IN PPB (RED INDICATE RESULTS ABOVE MDE CLEANUP STANDARDS)
- CONSTITUENTS
- DCA: DICHLOROETHANE
- DCE: DICHLOROETHENE
- TCA: TRICHLOROETHANE
- ND: NOT DETECTED

OFFSITE GROUNDWATER MONITORING WELL RESULTS - FEBRUARY 2017

FORMER KOP-FLEX FACILITY SITE

HANOVER, MARYLAND

PREPARED FOR
EMERSUB 16 LLC
ST. LOUIS, MISSOURI

SCALE IN FEET

0 400 800 1600

THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

REFERENCE:
PARCEL INFORMATION OBTAINED FROM ANNE ARUNDEL COUNTY, DEPARTMENT OF PUBLIC WORKS
<http://gis-world2.aacounty.org/DPWcounter/countermap.html>

REV	DESCRIPTION	DATE

DRAWN BY: EGC

CHECKED: [Signature]

APPROVED: [Signature]

SEAL: [Signature]

DATE: 5/14/2017

FIGURE 2

Drawing Number
314V0390-029

Table

Table 1

Quarterly Offsite Monitoring Well Sample Results (a)
Former Kop-Flex Facility Site
Hanover, Maryland
February 2017

Analyte (b)	Groundwater Cleanup Criteria (ug/L) (c)	MW-25-40	MW-25-130	MW-100 (e)	MW-25-190	MW-28-45	MW-28-210	MW-31-280	MW-33-235	MW-33-295	MW-35-298
		2/21/2017	2/21/2017	2/21/2017	2/21/2017	2/21/2017	2/21/2017	2/21/2017	2/21/2017	2/21/2017	2/21/2017
Benzene	5	1.0 U	1.0 U	1.0 U	1.1	1.4	1.0 U	1.8	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	90	1.0 U	7.2	1.4	14	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	1.0 U	1.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7	1.0 U	194	32.0	63.3	1.0 U	4.6	1.0 U	1.0 U	4.0	1.0 U
1,4-Dioxane (p-Dioxane)	6.7 (d)	3.0	69.1	74.8	52.1	2.0 U	3.0	2.0 U	2.0 U	6.8	2.0 U
Ethylbenzene	700	1.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
p-Isopropyltoluene	NE	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	2.0 U	2.0 U	4.3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Naphthalene	0.65	1.0 U	1.0 U	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1,000	1.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	200	1.0 U	7.0	1.1	11.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	10,000	1.0 U	1.0 U	7.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

a/ U = not detected at a concentration above the method detection limit

NE = no value established.

Highlighted number indicates concentration above the groundwater cleanup criteria

b/ All concentrations in micrograms per liter (µg/l)

c/ Groundwater Quality Criteria sources:

RSLs: [http://www.mde.maryland.gov/assets/document/Final%20Update%20No%20202.1%20dated%205-20-08\(1\).pdf](http://www.mde.maryland.gov/assets/document/Final%20Update%20No%20202.1%20dated%205-20-08(1).pdf)

d/ Value represents MDE risk-based cleanup level.

e/ MW-100 is a duplicate of MW-25-130.

Enclosure A – Certified Laboratory Report For March 2017 Residential Well Samples

Technical Report for

WSP Environment & Energy

Kop-Flex, Hanover, MD

31400390.03

SGS Accutest Job Number: JC39880

Sampling Date: 03/28/17



Report to:

WSP
11190 Sunrise Valley Drive Suite 300
Reston, VA 20190
eric.johnson@wspgroup.com

ATTN: Eric Johnson

Total number of pages in report: 19



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Daniel Axelrod 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

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Sample Summary

WSP Environment & Energy

Job No: JC39880

Kop-Flex, Hanover, MD
Project No: 31400390.03

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC39880-1	03/28/17	13:05 RW	03/29/17	AQ	Ground Water	RW-1227OCM-032817
JC39880-2	03/28/17	13:45 RW	03/29/17	AQ	Ground Water	RW-1245OCM-032817
JC39880-3	03/28/17	13:45 RW	03/29/17	AQ	Trip Blank Water	TRIP BLANKS

Summary of Hits

Job Number: JC39880
Account: WSP Environment & Energy
Project: Kop-Flex, Hanover, MD
Collected: 03/28/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JC39880-1 RW-1227OCM-032817

1,1-Dichloroethane ^a	0.17 J	0.50	0.13	ug/l	EPA 524.2 REV 4.1
1,1,1-Trichloroethane ^a	0.41 J	0.50	0.12	ug/l	EPA 524.2 REV 4.1
1,4-Dioxane	3.4	0.40	0.33	ug/l	SW846 8260C BY SIM

JC39880-2 RW-1245OCM-032817

1,1-Dichloroethane ^a	2.3	0.50	0.13	ug/l	EPA 524.2 REV 4.1
1,1-Dichloroethylene ^a	104	5.0	2.3	ug/l	EPA 524.2 REV 4.1
1,2-Dichloroethane ^a	1.1	0.50	0.28	ug/l	EPA 524.2 REV 4.1
cis-1,2-Dichloroethylene ^a	0.61	0.50	0.26	ug/l	EPA 524.2 REV 4.1
1,1,1-Trichloroethane ^a	3.8	0.50	0.12	ug/l	EPA 524.2 REV 4.1
Trichloroethylene ^a	0.75	0.50	0.11	ug/l	EPA 524.2 REV 4.1
1,4-Dioxane	40.4	0.40	0.33	ug/l	SW846 8260C BY SIM

JC39880-3 TRIP BLANKS

No hits reported in this sample.

(a) EPA 524.2 is not a certified method for non-potable water samples.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	RW-1227OCM-032817	Date Sampled:	03/28/17
Lab Sample ID:	JC39880-1	Date Received:	03/29/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	Kop-Flex, Hanover, MD		

VOA List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	0.50	0.26	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.098	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.25	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.26	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.50	0.32	ug/l	
591-78-6	2-Hexanone	ND	2.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.25	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.23	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.080	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	1.5	ug/l	
91-20-3	Naphthalene	ND	0.50	0.18	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.26	ug/l	
100-42-5	Styrene	ND	0.50	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	0.41	0.50	0.12	ug/l	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.099	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.11	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.24	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.12	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.48	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.056	ug/l	
	m,p-Xylene	ND	0.50	0.26	ug/l	
95-47-6	o-Xylene	ND	0.50	0.24	ug/l	
1330-20-7	Xylenes (total)	ND	0.50	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	96%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW-1227OCM-032817	Date Sampled: 03/28/17
Lab Sample ID: JC39880-1	Date Received: 03/29/17
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
Project: Kop-Flex, Hanover, MD	

VOA List

CAS No.	Compound	Result	RL	MDL	Units	Q
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(a) EPA 524.2 is not a certified method for non-potable water samples.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: RW-1227OCM-032817	Date Sampled: 03/28/17
Lab Sample ID: JC39880-1	Date Received: 03/29/17
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C BY SIM	
Project: Kop-Flex, Hanover, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A154420.D	1	04/01/17	TK	n/a	n/a	V3A6658
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	3.4	0.40	0.33	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
17647-74-4	1,4-Dioxane-d8	92%		63-157%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW-1245OCM-032817	Date Sampled:	03/28/17
Lab Sample ID:	JC39880-2	Date Received:	03/29/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	Kop-Flex, Hanover, MD		

VOA List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	0.50	0.26	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.098	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.61	0.50	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.25	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.26	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.50	0.32	ug/l	
591-78-6	2-Hexanone	ND	2.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.25	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.23	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.080	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	1.5	ug/l	
91-20-3	Naphthalene	ND	0.50	0.18	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.26	ug/l	
100-42-5	Styrene	ND	0.50	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	3.8	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.099	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.11	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.24	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.12	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	0.75	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.48	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.056	ug/l	
	m,p-Xylene	ND	0.50	0.26	ug/l	
95-47-6	o-Xylene	ND	0.50	0.24	ug/l	
1330-20-7	Xylenes (total)	ND	0.50	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	96%	100%	70-130%
460-00-4	4-Bromofluorobenzene	82%	83%	70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW-1245OCM-032817	Date Sampled: 03/28/17
Lab Sample ID: JC39880-2	Date Received: 03/29/17
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
Project: Kop-Flex, Hanover, MD	

VOA List

CAS No.	Compound	Result	RL	MDL	Units	Q
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- (a) EPA 524.2 is not a certified method for non-potable water samples.
- (b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: RW-1245OCM-032817	Date Sampled: 03/28/17
Lab Sample ID: JC39880-2	Date Received: 03/29/17
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C BY SIM	
Project: Kop-Flex, Hanover, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A154421.D	1	04/01/17	TK	n/a	n/a	V3A6658
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	40.4	0.40	0.33	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
17647-74-4	1,4-Dioxane-d8	107%		63-157%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANKS	Date Sampled:	03/28/17
Lab Sample ID:	JC39880-3	Date Received:	03/29/17
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	Kop-Flex, Hanover, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1B108560.D	1	03/30/17	BK	n/a	n/a	V1B5163
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.8	ug/l	
78-93-3	2-Butanone	ND	5.0	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.26	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.36	ug/l	
75-25-2	Bromoform	ND	0.50	0.40	ug/l	
74-83-9	Bromomethane	ND	0.50	0.081	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.26	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.25	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.39	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.27	ug/l	
75-00-3	Chloroethane	ND	0.50	0.071	ug/l	
67-66-3	Chloroform	ND	0.50	0.33	ug/l	
74-87-3	Chloromethane	ND	0.50	0.39	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.30	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.27	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.21	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.28	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.29	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.24	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.094	ug/l	
74-95-3	Dibromomethane	ND	0.50	0.085	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.44	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.28	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANKS	
Lab Sample ID: JC39880-3	Date Sampled: 03/28/17
Matrix: AQ - Trip Blank Water	Date Received: 03/29/17
Method: EPA 524.2 REV 4.1	Percent Solids: n/a
Project: Kop-Flex, Hanover, MD	

VOA List

CAS No.	Compound	Result	RL	MDL	Units	Q
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(a) EPA 524.2 is not a certified method for non-potable water samples.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS Accutest Sample Receipt Summary

Job Number: JC39880

Client: _____

Project: _____

Date / Time Received: 3/29/2017 9:40:00 AM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (3.7);

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

SM089-02
Rev. Date 12/1/16

JC39880: Chain of Custody

Page 2 of 2

4.1
4

Enclosure B – Certified Laboratory Report For February 2017 Monitoring Well Samples

March 02, 2017

Eric Johnson
WSP Environmental Strategies
11190 Sunrise Valley Dr.
Suite #300
Reston, VA 20191

RE: Project: FORMER KOP FLEX FACILITY
Pace Project No.: 92331101

Dear Eric Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
1(704)875-9092
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92331101001	MW-25-130	Water	02/21/17 09:20	02/23/17 09:24
92331101002	MW-100	Water	02/21/17 12:00	02/23/17 09:24
92331101003	MW-25-40	Water	02/21/17 09:50	02/23/17 09:24
92331101004	MW-25-190	Water	02/21/17 10:05	02/23/17 09:24
92331101005	MW-28-45	Water	02/21/17 10:35	02/23/17 09:24
92331101006	MW-28-210	Water	02/21/17 10:55	02/23/17 09:24
92331101007	MW-33-235	Water	02/21/17 12:20	02/23/17 09:24
92331101008	MW-33-295	Water	02/21/17 12:50	02/23/17 09:24
92331101009	MW-31-280	Water	02/21/17 13:25	02/23/17 09:24
92331101010	MW-35-298	Water	02/21/17 14:00	02/23/17 09:24
92331101011	EB-02212017	Water	02/21/17 14:35	02/23/17 09:24
92331101012	IDW-02212017	Water	02/21/17 14:55	02/23/17 09:24
92331101013	TRIP BLANK	Water	02/21/17 00:00	02/23/17 09:24

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SAMPLE ANALYTE COUNT

Project: FORMER KOP FLEX FACILITY
Pace Project No.: 92331101

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92331101001	MW-25-130	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92331101002	MW-100	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92331101003	MW-25-40	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92331101004	MW-25-190	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92331101005	MW-28-45	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92331101006	MW-28-210	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92331101007	MW-33-235	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92331101008	MW-33-295	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92331101009	MW-31-280	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92331101010	MW-35-298	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92331101011	EB-02212017	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92331101012	IDW-02212017	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92331101013	TRIP BLANK	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-25-130	Lab ID: 92331101001	Collected: 02/21/17 09:20	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		02/24/17 04:37	67-64-1	
Benzene	ND	ug/L	1.0	1		02/24/17 04:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/24/17 04:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/24/17 04:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/24/17 04:37	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/24/17 04:37	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/24/17 04:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/24/17 04:37	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/24/17 04:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/24/17 04:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/24/17 04:37	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/24/17 04:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/24/17 04:37	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/24/17 04:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/24/17 04:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/24/17 04:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/24/17 04:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/24/17 04:37	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/24/17 04:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/24/17 04:37	75-71-8	
1,1-Dichloroethane	7.2	ug/L	1.0	1		02/24/17 04:37	75-34-3	
1,2-Dichloroethane	1.7	ug/L	1.0	1		02/24/17 04:37	107-06-2	
1,1-Dichloroethene	194	ug/L	1.0	1		02/24/17 04:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/24/17 04:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/24/17 04:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/24/17 04:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/24/17 04:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/24/17 04:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/24/17 04:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/24/17 04:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/24/17 04:37	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/24/17 04:37	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/24/17 04:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/24/17 04:37	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/24/17 04:37	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/24/17 04:37	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/24/17 04:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/24/17 04:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/24/17 04:37	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/24/17 04:37	91-20-3	
Styrene	ND	ug/L	1.0	1		02/24/17 04:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/24/17 04:37	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/24/17 04:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/24/17 04:37	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-25-130	Lab ID: 92331101001	Collected: 02/21/17 09:20	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	1.0	1		02/24/17 04:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:37	120-82-1	
1,1,1-Trichloroethane	7.0	ug/L	1.0	1		02/24/17 04:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/24/17 04:37	79-00-5	
Trichloroethene	1.2	ug/L	1.0	1		02/24/17 04:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/24/17 04:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/24/17 04:37	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/24/17 04:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/24/17 04:37	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/24/17 04:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/24/17 04:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/24/17 04:37	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		02/24/17 04:37	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		02/24/17 04:37	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		02/24/17 04:37	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	69.1	ug/L	2.0	1		02/27/17 18:50	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	50-150	1		02/27/17 18:50	17060-07-0	
Toluene-d8 (S)	102	%	50-150	1		02/27/17 18:50	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-100	Lab ID: 92331101002	Collected: 02/21/17 12:00	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		02/24/17 05:47	67-64-1	
Benzene	ND	ug/L	1.0	1		02/24/17 05:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/24/17 05:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/24/17 05:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/24/17 05:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/24/17 05:47	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/24/17 05:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/24/17 05:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/24/17 05:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/24/17 05:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/24/17 05:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/24/17 05:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/24/17 05:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/24/17 05:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/24/17 05:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/24/17 05:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/24/17 05:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/24/17 05:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/24/17 05:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/24/17 05:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/24/17 05:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/24/17 05:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/24/17 05:47	75-71-8	
1,1-Dichloroethane	1.4	ug/L	1.0	1		02/24/17 05:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/24/17 05:47	107-06-2	
1,1-Dichloroethene	32.0	ug/L	1.0	1		02/24/17 05:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/24/17 05:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/24/17 05:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/24/17 05:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/24/17 05:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/24/17 05:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/24/17 05:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/24/17 05:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/24/17 05:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/24/17 05:47	108-20-3	
Ethylbenzene	1.4	ug/L	1.0	1		02/24/17 05:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/24/17 05:47	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/24/17 05:47	591-78-6	
p-Isopropyltoluene	1.1	ug/L	1.0	1		02/24/17 05:47	99-87-6	
Methylene Chloride	4.3	ug/L	2.0	1		02/24/17 05:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/24/17 05:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/24/17 05:47	1634-04-4	
Naphthalene	2.0	ug/L	1.0	1		02/24/17 05:47	91-20-3	
Styrene	ND	ug/L	1.0	1		02/24/17 05:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/24/17 05:47	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/24/17 05:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/24/17 05:47	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-100	Lab ID: 92331101002	Collected: 02/21/17 12:00	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	1.5	ug/L	1.0	1		02/24/17 05:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/24/17 05:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/24/17 05:47	120-82-1	
1,1,1-Trichloroethane	1.1	ug/L	1.0	1		02/24/17 05:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/24/17 05:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/24/17 05:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/24/17 05:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/24/17 05:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/24/17 05:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/24/17 05:47	75-01-4	
Xylene (Total)	7.3	ug/L	1.0	1		02/24/17 05:47	1330-20-7	
m&p-Xylene	4.6	ug/L	2.0	1		02/24/17 05:47	179601-23-1	
o-Xylene	2.7	ug/L	1.0	1		02/24/17 05:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		02/24/17 05:47	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		02/24/17 05:47	17060-07-0	
Toluene-d8 (S)	108	%	70-130	1		02/24/17 05:47	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	74.8	ug/L	2.0	1		02/28/17 14:13	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	50-150	1		02/28/17 14:13	17060-07-0	
Toluene-d8 (S)	122	%	50-150	1		02/28/17 14:13	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-25-40	Lab ID: 92331101003	Collected: 02/21/17 09:50	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		02/24/17 04:54	67-64-1	
Benzene	ND	ug/L	1.0	1		02/24/17 04:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/24/17 04:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/24/17 04:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/24/17 04:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/24/17 04:54	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/24/17 04:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/24/17 04:54	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/24/17 04:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/24/17 04:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/24/17 04:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/24/17 04:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/24/17 04:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/24/17 04:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/24/17 04:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/24/17 04:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/24/17 04:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/24/17 04:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/24/17 04:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/24/17 04:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/24/17 04:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/24/17 04:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/24/17 04:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/24/17 04:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/24/17 04:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/24/17 04:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/24/17 04:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/24/17 04:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/24/17 04:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/24/17 04:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/24/17 04:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/24/17 04:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/24/17 04:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/24/17 04:54	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/24/17 04:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/24/17 04:54	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/24/17 04:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/24/17 04:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/24/17 04:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/24/17 04:54	91-20-3	
Styrene	ND	ug/L	1.0	1		02/24/17 04:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/24/17 04:54	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/24/17 04:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/24/17 04:54	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-25-40	Lab ID: 92331101003	Collected: 02/21/17 09:50	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	1.0	1		02/24/17 04:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/24/17 04:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/24/17 04:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/24/17 04:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/24/17 04:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/24/17 04:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/24/17 04:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/24/17 04:54	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/24/17 04:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/24/17 04:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/24/17 04:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		02/24/17 04:54	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		02/24/17 04:54	17060-07-0	
Toluene-d8 (S)	108	%	70-130	1		02/24/17 04:54	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	3.0	ug/L	2.0	1		02/27/17 19:08	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	50-150	1		02/27/17 19:08	17060-07-0	
Toluene-d8 (S)	98	%	50-150	1		02/27/17 19:08	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-25-190	Lab ID: 92331101004	Collected: 02/21/17 10:05	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		02/24/17 04:19	67-64-1	
Benzene	1.1	ug/L	1.0	1		02/24/17 04:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/24/17 04:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/24/17 04:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/24/17 04:19	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/24/17 04:19	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/24/17 04:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/24/17 04:19	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/24/17 04:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/24/17 04:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/24/17 04:19	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/24/17 04:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/24/17 04:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/24/17 04:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/24/17 04:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/24/17 04:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/24/17 04:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/24/17 04:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/24/17 04:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/24/17 04:19	75-71-8	
1,1-Dichloroethane	14.0	ug/L	1.0	1		02/24/17 04:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/24/17 04:19	107-06-2	
1,1-Dichloroethene	63.3	ug/L	1.0	1		02/24/17 04:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/24/17 04:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/24/17 04:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/24/17 04:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/24/17 04:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/24/17 04:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/24/17 04:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/24/17 04:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/24/17 04:19	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/24/17 04:19	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/24/17 04:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/24/17 04:19	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/24/17 04:19	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/24/17 04:19	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/24/17 04:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/24/17 04:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/24/17 04:19	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/24/17 04:19	91-20-3	
Styrene	ND	ug/L	1.0	1		02/24/17 04:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/24/17 04:19	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/24/17 04:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/24/17 04:19	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-25-190	Lab ID: 92331101004	Collected: 02/21/17 10:05	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	1.0	1		02/24/17 04:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/24/17 04:19	120-82-1	
1,1,1-Trichloroethane	11.6	ug/L	1.0	1		02/24/17 04:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/24/17 04:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/24/17 04:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/24/17 04:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/24/17 04:19	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/24/17 04:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/24/17 04:19	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/24/17 04:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/24/17 04:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/24/17 04:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		02/24/17 04:19	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		02/24/17 04:19	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		02/24/17 04:19	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	52.1	ug/L	2.0	1		02/27/17 20:04	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	50-150	1		02/27/17 20:04	17060-07-0	
Toluene-d8 (S)	98	%	50-150	1		02/27/17 20:04	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-28-45	Lab ID: 92331101005	Collected: 02/21/17 10:35	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		02/27/17 17:18	67-64-1	
Benzene	1.4	ug/L	1.0	1		02/27/17 17:18	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/27/17 17:18	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/27/17 17:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/27/17 17:18	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/27/17 17:18	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/27/17 17:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/27/17 17:18	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/27/17 17:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/27/17 17:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/27/17 17:18	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/27/17 17:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/27/17 17:18	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/27/17 17:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/27/17 17:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/27/17 17:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/27/17 17:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/27/17 17:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/27/17 17:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/27/17 17:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/27/17 17:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/27/17 17:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/27/17 17:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/27/17 17:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/27/17 17:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/27/17 17:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/17 17:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/17 17:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/27/17 17:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/27/17 17:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/27/17 17:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/27/17 17:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/17 17:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/17 17:18	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/27/17 17:18	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/27/17 17:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/27/17 17:18	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/27/17 17:18	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/27/17 17:18	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/27/17 17:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/27/17 17:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/27/17 17:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/27/17 17:18	91-20-3	
Styrene	ND	ug/L	1.0	1		02/27/17 17:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/17 17:18	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/17 17:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/27/17 17:18	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-28-45	Lab ID: 92331101005	Collected: 02/21/17 10:35	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	1.0	1		02/27/17 17:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/27/17 17:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/27/17 17:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/27/17 17:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/27/17 17:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/27/17 17:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/27/17 17:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/27/17 17:18	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/27/17 17:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/27/17 17:18	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/27/17 17:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/27/17 17:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/27/17 17:18	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		02/27/17 17:18	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		02/27/17 17:18	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		02/27/17 17:18	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		02/27/17 20:22	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	50-150	1		02/27/17 20:22	17060-07-0	
Toluene-d8 (S)	95	%	50-150	1		02/27/17 20:22	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-28-210	Lab ID: 92331101006	Collected: 02/21/17 10:55	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		02/23/17 21:03	67-64-1	
Benzene	ND	ug/L	1.0	1		02/23/17 21:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/23/17 21:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/23/17 21:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/23/17 21:03	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/23/17 21:03	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/23/17 21:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/23/17 21:03	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/23/17 21:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/23/17 21:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/23/17 21:03	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/23/17 21:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/23/17 21:03	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/23/17 21:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/23/17 21:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/23/17 21:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/23/17 21:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/23/17 21:03	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/23/17 21:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/23/17 21:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/23/17 21:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/23/17 21:03	107-06-2	
1,1-Dichloroethene	4.6	ug/L	1.0	1		02/23/17 21:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/23/17 21:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/23/17 21:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/23/17 21:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/23/17 21:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/23/17 21:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/23/17 21:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/23/17 21:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/23/17 21:03	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/23/17 21:03	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/23/17 21:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/23/17 21:03	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/23/17 21:03	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/23/17 21:03	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/23/17 21:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/23/17 21:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/23/17 21:03	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/23/17 21:03	91-20-3	
Styrene	ND	ug/L	1.0	1		02/23/17 21:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/23/17 21:03	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/23/17 21:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/23/17 21:03	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-28-210	Lab ID: 92331101006	Collected: 02/21/17 10:55	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	1.0	1		02/23/17 21:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/23/17 21:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/23/17 21:03	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/23/17 21:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/23/17 21:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/23/17 21:03	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/23/17 21:03	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/23/17 21:03	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/23/17 21:03	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/23/17 21:03	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/23/17 21:03	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		02/23/17 21:03	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		02/23/17 21:03	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		02/23/17 21:03	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	3.0	ug/L	2.0	1		02/27/17 20:41	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	50-150	1		02/27/17 20:41	17060-07-0	
Toluene-d8 (S)	94	%	50-150	1		02/27/17 20:41	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-33-235		Lab ID: 92331101007	Collected: 02/21/17 12:20	Received: 02/23/17 09:24	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		02/23/17 21:21	67-64-1	
Benzene	ND	ug/L	1.0	1		02/23/17 21:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/23/17 21:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/23/17 21:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/23/17 21:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/23/17 21:21	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/23/17 21:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/23/17 21:21	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/23/17 21:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/23/17 21:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/23/17 21:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/23/17 21:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/23/17 21:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/23/17 21:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/23/17 21:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/23/17 21:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/23/17 21:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/23/17 21:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/23/17 21:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/23/17 21:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/23/17 21:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/23/17 21:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/23/17 21:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/23/17 21:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/23/17 21:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/23/17 21:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/23/17 21:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/23/17 21:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/23/17 21:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/23/17 21:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/23/17 21:21	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/23/17 21:21	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/23/17 21:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/23/17 21:21	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/23/17 21:21	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/23/17 21:21	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/23/17 21:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/23/17 21:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/23/17 21:21	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/23/17 21:21	91-20-3	
Styrene	ND	ug/L	1.0	1		02/23/17 21:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/23/17 21:21	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/23/17 21:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/23/17 21:21	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-33-235	Lab ID: 92331101007	Collected: 02/21/17 12:20	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	1.0	1		02/23/17 21:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/23/17 21:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/23/17 21:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/23/17 21:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/23/17 21:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/23/17 21:21	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/23/17 21:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/23/17 21:21	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/23/17 21:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/23/17 21:21	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/23/17 21:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		02/23/17 21:21	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		02/23/17 21:21	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		02/23/17 21:21	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		02/27/17 20:59	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	50-150	1		02/27/17 20:59	17060-07-0	
Toluene-d8 (S)	97	%	50-150	1		02/27/17 20:59	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-33-295	Lab ID: 92331101008	Collected: 02/21/17 12:50	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		02/23/17 21:38	67-64-1	
Benzene	ND	ug/L	1.0	1		02/23/17 21:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/23/17 21:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/23/17 21:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/23/17 21:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/23/17 21:38	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/23/17 21:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/23/17 21:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/23/17 21:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/23/17 21:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/23/17 21:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/23/17 21:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/23/17 21:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/23/17 21:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/23/17 21:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/23/17 21:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/23/17 21:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/23/17 21:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/23/17 21:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/23/17 21:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/23/17 21:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/23/17 21:38	107-06-2	
1,1-Dichloroethene	4.0	ug/L	1.0	1		02/23/17 21:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/23/17 21:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/23/17 21:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/23/17 21:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/23/17 21:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/23/17 21:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/23/17 21:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/23/17 21:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/23/17 21:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/23/17 21:38	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/23/17 21:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/23/17 21:38	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/23/17 21:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/23/17 21:38	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/23/17 21:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/23/17 21:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/23/17 21:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/23/17 21:38	91-20-3	
Styrene	ND	ug/L	1.0	1		02/23/17 21:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/23/17 21:38	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/23/17 21:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/23/17 21:38	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-33-295	Lab ID: 92331101008	Collected: 02/21/17 12:50	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	1.0	1		02/23/17 21:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/23/17 21:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/23/17 21:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/23/17 21:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/23/17 21:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/23/17 21:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/23/17 21:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/23/17 21:38	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/23/17 21:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/23/17 21:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/23/17 21:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		02/23/17 21:38	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		02/23/17 21:38	17060-07-0	
Toluene-d8 (S)	109	%	70-130	1		02/23/17 21:38	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	6.8	ug/L	2.0	1		02/27/17 21:17	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	50-150	1		02/27/17 21:17	17060-07-0	
Toluene-d8 (S)	101	%	50-150	1		02/27/17 21:17	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-31-280	Lab ID: 92331101009	Collected: 02/21/17 13:25	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		02/23/17 21:55	67-64-1	
Benzene	ND	ug/L	1.0	1		02/23/17 21:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/23/17 21:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/23/17 21:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/23/17 21:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/23/17 21:55	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/23/17 21:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/23/17 21:55	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/23/17 21:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/23/17 21:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/23/17 21:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/23/17 21:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/23/17 21:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/23/17 21:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/23/17 21:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/23/17 21:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/23/17 21:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/23/17 21:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/23/17 21:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/23/17 21:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/23/17 21:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/23/17 21:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/23/17 21:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/23/17 21:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/23/17 21:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/23/17 21:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/23/17 21:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/23/17 21:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/23/17 21:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/23/17 21:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/23/17 21:55	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/23/17 21:55	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/23/17 21:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/23/17 21:55	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/23/17 21:55	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/23/17 21:55	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/23/17 21:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/23/17 21:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/23/17 21:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/23/17 21:55	91-20-3	
Styrene	ND	ug/L	1.0	1		02/23/17 21:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/23/17 21:55	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/23/17 21:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/23/17 21:55	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-31-280	Lab ID: 92331101009	Collected: 02/21/17 13:25	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	1.0	1		02/23/17 21:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/23/17 21:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/23/17 21:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/23/17 21:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/23/17 21:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/23/17 21:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/23/17 21:55	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/23/17 21:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/23/17 21:55	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/23/17 21:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/23/17 21:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/23/17 21:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		02/23/17 21:55	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		02/23/17 21:55	17060-07-0	
Toluene-d8 (S)	107	%	70-130	1		02/23/17 21:55	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		02/27/17 21:36	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	82	%	50-150	1		02/27/17 21:36	17060-07-0	
Toluene-d8 (S)	90	%	50-150	1		02/27/17 21:36	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-35-298	Lab ID: 92331101010	Collected: 02/21/17 14:00	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/23/17 22:13	67-64-1	
Benzene	ND	ug/L	1.0	1		02/23/17 22:13	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/23/17 22:13	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/23/17 22:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/23/17 22:13	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/23/17 22:13	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/23/17 22:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/23/17 22:13	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/23/17 22:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/23/17 22:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/23/17 22:13	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/23/17 22:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/23/17 22:13	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/23/17 22:13	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/23/17 22:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/23/17 22:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/23/17 22:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/23/17 22:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/23/17 22:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 22:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 22:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 22:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/23/17 22:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/23/17 22:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/23/17 22:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/23/17 22:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/23/17 22:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/23/17 22:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/23/17 22:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/23/17 22:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/23/17 22:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/23/17 22:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/23/17 22:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/23/17 22:13	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/23/17 22:13	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/23/17 22:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/23/17 22:13	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/23/17 22:13	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/23/17 22:13	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/23/17 22:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/23/17 22:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/23/17 22:13	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/23/17 22:13	91-20-3	
Styrene	ND	ug/L	1.0	1		02/23/17 22:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/23/17 22:13	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/23/17 22:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/23/17 22:13	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: MW-35-298	Lab ID: 92331101010	Collected: 02/21/17 14:00	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	1.0	1		02/23/17 22:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/23/17 22:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/23/17 22:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/23/17 22:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/23/17 22:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/23/17 22:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/23/17 22:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/23/17 22:13	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/23/17 22:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/23/17 22:13	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/23/17 22:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/23/17 22:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/23/17 22:13	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		02/23/17 22:13	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		02/23/17 22:13	17060-07-0	
Toluene-d8 (S)	119	%	70-130	1		02/23/17 22:13	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		02/27/17 21:54	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	84	%	50-150	1		02/27/17 21:54	17060-07-0	
Toluene-d8 (S)	90	%	50-150	1		02/27/17 21:54	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: EB-02212017	Lab ID: 92331101011	Collected: 02/21/17 14:35	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/23/17 22:30	67-64-1	
Benzene	ND	ug/L	1.0	1		02/23/17 22:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/23/17 22:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/23/17 22:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/23/17 22:30	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/23/17 22:30	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/23/17 22:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/23/17 22:30	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/23/17 22:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/23/17 22:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/23/17 22:30	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/23/17 22:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/23/17 22:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/23/17 22:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/23/17 22:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/23/17 22:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/23/17 22:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/23/17 22:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/23/17 22:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 22:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 22:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/23/17 22:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/23/17 22:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/23/17 22:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/23/17 22:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/23/17 22:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/23/17 22:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/23/17 22:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/23/17 22:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/23/17 22:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/23/17 22:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/23/17 22:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/23/17 22:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/23/17 22:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/23/17 22:30	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/23/17 22:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/23/17 22:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/23/17 22:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/23/17 22:30	99-87-6	
Methylene Chloride	2.5	ug/L	2.0	1		02/23/17 22:30	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/23/17 22:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/23/17 22:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/23/17 22:30	91-20-3	
Styrene	ND	ug/L	1.0	1		02/23/17 22:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/23/17 22:30	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/23/17 22:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/23/17 22:30	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: EB-02212017	Lab ID: 92331101011	Collected: 02/21/17 14:35	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	1.0	1		02/23/17 22:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/23/17 22:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/23/17 22:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/23/17 22:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/23/17 22:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/23/17 22:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/23/17 22:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/23/17 22:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/23/17 22:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/23/17 22:30	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/23/17 22:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/23/17 22:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/23/17 22:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		02/23/17 22:30	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		02/23/17 22:30	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		02/23/17 22:30	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		02/27/17 22:13	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	50-150	1		02/27/17 22:13	17060-07-0	
Toluene-d8 (S)	92	%	50-150	1		02/27/17 22:13	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: IDW-02212017	Lab ID: 92331101012	Collected: 02/21/17 14:55	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	1410	ug/L	125	5		03/01/17 04:11	67-64-1	
Benzene	ND	ug/L	5.0	5		03/01/17 04:11	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		03/01/17 04:11	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		03/01/17 04:11	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		03/01/17 04:11	75-27-4	
Bromoform	ND	ug/L	5.0	5		03/01/17 04:11	75-25-2	
Bromomethane	ND	ug/L	10.0	5		03/01/17 04:11	74-83-9	
2-Butanone (MEK)	634	ug/L	25.0	5		03/01/17 04:11	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	5		03/01/17 04:11	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		03/01/17 04:11	108-90-7	
Chloroethane	ND	ug/L	5.0	5		03/01/17 04:11	75-00-3	
Chloroform	61.1	ug/L	5.0	5		03/01/17 04:11	67-66-3	
Chloromethane	ND	ug/L	5.0	5		03/01/17 04:11	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		03/01/17 04:11	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		03/01/17 04:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5		03/01/17 04:11	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		03/01/17 04:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		03/01/17 04:11	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		03/01/17 04:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		03/01/17 04:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		03/01/17 04:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		03/01/17 04:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		03/01/17 04:11	75-71-8	
1,1-Dichloroethane	9.4	ug/L	5.0	5		03/01/17 04:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		03/01/17 04:11	107-06-2	
1,1-Dichloroethene	10.3	ug/L	5.0	5		03/01/17 04:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		03/01/17 04:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		03/01/17 04:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		03/01/17 04:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		03/01/17 04:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	5		03/01/17 04:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		03/01/17 04:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		03/01/17 04:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		03/01/17 04:11	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	5		03/01/17 04:11	108-20-3	
Ethylbenzene	ND	ug/L	5.0	5		03/01/17 04:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		03/01/17 04:11	87-68-3	
2-Hexanone	ND	ug/L	25.0	5		03/01/17 04:11	591-78-6	
p-Isopropyltoluene	ND	ug/L	5.0	5		03/01/17 04:11	99-87-6	
Methylene Chloride	ND	ug/L	10.0	5		03/01/17 04:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	5		03/01/17 04:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		03/01/17 04:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	5		03/01/17 04:11	91-20-3	
Styrene	ND	ug/L	5.0	5		03/01/17 04:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		03/01/17 04:11	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		03/01/17 04:11	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	5		03/01/17 04:11	127-18-4	

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: IDW-02212017	Lab ID: 92331101012	Collected: 02/21/17 14:55	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	5.0	5		03/01/17 04:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		03/01/17 04:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		03/01/17 04:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		03/01/17 04:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		03/01/17 04:11	79-00-5	
Trichloroethene	ND	ug/L	5.0	5		03/01/17 04:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		03/01/17 04:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		03/01/17 04:11	96-18-4	
Vinyl acetate	ND	ug/L	10.0	5		03/01/17 04:11	108-05-4	
Vinyl chloride	ND	ug/L	5.0	5		03/01/17 04:11	75-01-4	
Xylene (Total)	ND	ug/L	5.0	5		03/01/17 04:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		03/01/17 04:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	5		03/01/17 04:11	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	5		03/01/17 04:11	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	5		03/01/17 04:11	17060-07-0	
Toluene-d8 (S)	99	%	70-130	5		03/01/17 04:11	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	104	ug/L	5.0	2.5		02/28/17 13:55	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	50-150	1		02/27/17 22:31	17060-07-0	
Toluene-d8 (S)	93	%	50-150	1		02/27/17 22:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: TRIP BLANK	Lab ID: 92331101013	Collected: 02/21/17 00:00	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/27/17 15:16	67-64-1	
Benzene	ND	ug/L	1.0	1		02/27/17 15:16	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/27/17 15:16	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/27/17 15:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/27/17 15:16	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/27/17 15:16	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/27/17 15:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/27/17 15:16	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/27/17 15:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/27/17 15:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/27/17 15:16	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/27/17 15:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/27/17 15:16	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/27/17 15:16	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/27/17 15:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/27/17 15:16	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/27/17 15:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/27/17 15:16	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/27/17 15:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/27/17 15:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/27/17 15:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/27/17 15:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/27/17 15:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/27/17 15:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/27/17 15:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/27/17 15:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/17 15:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/17 15:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/27/17 15:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/27/17 15:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/27/17 15:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/27/17 15:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/17 15:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/17 15:16	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/27/17 15:16	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/27/17 15:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/27/17 15:16	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/27/17 15:16	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/27/17 15:16	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/27/17 15:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/27/17 15:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/27/17 15:16	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/27/17 15:16	91-20-3	
Styrene	ND	ug/L	1.0	1		02/27/17 15:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/17 15:16	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/17 15:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/27/17 15:16	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Sample: TRIP BLANK	Lab ID: 92331101013	Collected: 02/21/17 00:00	Received: 02/23/17 09:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	1.0	1		02/27/17 15:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/27/17 15:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/27/17 15:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/27/17 15:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/27/17 15:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/27/17 15:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/27/17 15:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/27/17 15:16	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/27/17 15:16	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/27/17 15:16	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/27/17 15:16	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/27/17 15:16	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/27/17 15:16	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		02/27/17 15:16	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		02/27/17 15:16	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		02/27/17 15:16	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		02/27/17 22:49	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	50-150	1		02/27/17 22:49	17060-07-0	
Toluene-d8 (S)	94	%	50-150	1		02/27/17 22:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

QC Batch: 349620 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92331101006, 92331101007, 92331101008, 92331101009, 92331101010, 92331101011

METHOD BLANK: 1939627 Matrix: Water
Associated Lab Samples: 92331101006, 92331101007, 92331101008, 92331101009, 92331101010, 92331101011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/23/17 14:58	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/23/17 14:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/23/17 14:58	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/23/17 14:58	
1,1-Dichloroethane	ug/L	ND	1.0	02/23/17 14:58	
1,1-Dichloroethene	ug/L	ND	1.0	02/23/17 14:58	
1,1-Dichloropropene	ug/L	ND	1.0	02/23/17 14:58	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/23/17 14:58	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/23/17 14:58	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/23/17 14:58	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	02/23/17 14:58	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/23/17 14:58	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/23/17 14:58	
1,2-Dichloroethane	ug/L	ND	1.0	02/23/17 14:58	
1,2-Dichloropropane	ug/L	ND	1.0	02/23/17 14:58	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/23/17 14:58	
1,3-Dichloropropane	ug/L	ND	1.0	02/23/17 14:58	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/23/17 14:58	
2,2-Dichloropropane	ug/L	ND	1.0	02/23/17 14:58	
2-Butanone (MEK)	ug/L	ND	5.0	02/23/17 14:58	
2-Chlorotoluene	ug/L	ND	1.0	02/23/17 14:58	
2-Hexanone	ug/L	ND	5.0	02/23/17 14:58	
4-Chlorotoluene	ug/L	ND	1.0	02/23/17 14:58	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/23/17 14:58	
Acetone	ug/L	ND	25.0	02/23/17 14:58	
Benzene	ug/L	ND	1.0	02/23/17 14:58	
Bromobenzene	ug/L	ND	1.0	02/23/17 14:58	
Bromochloromethane	ug/L	ND	1.0	02/23/17 14:58	
Bromodichloromethane	ug/L	ND	1.0	02/23/17 14:58	
Bromoform	ug/L	ND	1.0	02/23/17 14:58	
Bromomethane	ug/L	ND	2.0	02/23/17 14:58	
Carbon tetrachloride	ug/L	ND	1.0	02/23/17 14:58	
Chlorobenzene	ug/L	ND	1.0	02/23/17 14:58	
Chloroethane	ug/L	ND	1.0	02/23/17 14:58	
Chloroform	ug/L	ND	1.0	02/23/17 14:58	
Chloromethane	ug/L	ND	1.0	02/23/17 14:58	
cis-1,2-Dichloroethane	ug/L	ND	1.0	02/23/17 14:58	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/23/17 14:58	
Dibromochloromethane	ug/L	ND	1.0	02/23/17 14:58	
Dibromomethane	ug/L	ND	1.0	02/23/17 14:58	
Dichlorodifluoromethane	ug/L	ND	1.0	02/23/17 14:58	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

METHOD BLANK: 1939627

Matrix: Water

Associated Lab Samples: 92331101006, 92331101007, 92331101008, 92331101009, 92331101010, 92331101011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	02/23/17 14:58	
Ethylbenzene	ug/L	ND	1.0	02/23/17 14:58	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/23/17 14:58	
m&p-Xylene	ug/L	ND	2.0	02/23/17 14:58	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/23/17 14:58	
Methylene Chloride	ug/L	ND	2.0	02/23/17 14:58	
Naphthalene	ug/L	ND	1.0	02/23/17 14:58	
o-Xylene	ug/L	ND	1.0	02/23/17 14:58	
p-Isopropyltoluene	ug/L	ND	1.0	02/23/17 14:58	
Styrene	ug/L	ND	1.0	02/23/17 14:58	
Tetrachloroethene	ug/L	ND	1.0	02/23/17 14:58	
Toluene	ug/L	ND	1.0	02/23/17 14:58	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/23/17 14:58	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/23/17 14:58	
Trichloroethene	ug/L	ND	1.0	02/23/17 14:58	
Trichlorofluoromethane	ug/L	ND	1.0	02/23/17 14:58	
Vinyl acetate	ug/L	ND	2.0	02/23/17 14:58	
Vinyl chloride	ug/L	ND	1.0	02/23/17 14:58	
Xylene (Total)	ug/L	ND	1.0	02/23/17 14:58	
1,2-Dichloroethane-d4 (S)	%	91	70-130	02/23/17 14:58	
4-Bromofluorobenzene (S)	%	94	70-130	02/23/17 14:58	
Toluene-d8 (S)	%	106	70-130	02/23/17 14:58	

LABORATORY CONTROL SAMPLE: 1939628

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.2	102	70-130	
1,1,1-Trichloroethane	ug/L	50	45.4	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.4	95	70-130	
1,1,2-Trichloroethane	ug/L	50	46.1	92	70-130	
1,1-Dichloroethane	ug/L	50	44.9	90	70-130	
1,1-Dichloroethene	ug/L	50	47.4	95	70-132	
1,1-Dichloropropene	ug/L	50	48.4	97	70-130	
1,2,3-Trichlorobenzene	ug/L	50	51.9	104	70-135	
1,2,3-Trichloropropane	ug/L	50	47.6	95	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.4	103	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	50.9	102	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.4	101	70-130	
1,2-Dichlorobenzene	ug/L	50	51.8	104	70-130	
1,2-Dichloroethane	ug/L	50	44.0	88	70-130	
1,2-Dichloropropane	ug/L	50	47.3	95	70-130	
1,3-Dichlorobenzene	ug/L	50	50.0	100	70-130	
1,3-Dichloropropane	ug/L	50	53.9	108	70-130	
1,4-Dichlorobenzene	ug/L	50	50.5	101	70-130	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

LABORATORY CONTROL SAMPLE: 1939628

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	45.9	92	58-145	
2-Butanone (MEK)	ug/L	100	94.1	94	70-145	
2-Chlorotoluene	ug/L	50	50.8	102	70-130	
2-Hexanone	ug/L	100	103	103	70-144	
4-Chlorotoluene	ug/L	50	50.9	102	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.6	89	70-140	
Acetone	ug/L	100	95.0	95	50-175	
Benzene	ug/L	50	47.7	95	70-130	
Bromobenzene	ug/L	50	50.2	100	70-130	
Bromochloromethane	ug/L	50	47.7	95	70-130	
Bromodichloromethane	ug/L	50	48.6	97	70-130	
Bromoform	ug/L	50	40.3	81	70-130	
Bromomethane	ug/L	50	41.0	82	54-130	
Carbon tetrachloride	ug/L	50	47.9	96	70-132	
Chlorobenzene	ug/L	50	48.9	98	70-130	
Chloroethane	ug/L	50	46.7	93	64-134	
Chloroform	ug/L	50	45.5	91	70-130	
Chloromethane	ug/L	50	42.9	86	64-130	
cis-1,2-Dichloroethene	ug/L	50	44.3	89	70-131	
cis-1,3-Dichloropropene	ug/L	50	47.3	95	70-130	
Dibromochloromethane	ug/L	50	45.8	92	70-130	
Dibromomethane	ug/L	50	44.2	88	70-131	
Dichlorodifluoromethane	ug/L	50	44.3	89	56-130	
Diisopropyl ether	ug/L	50	47.7	95	70-130	
Ethylbenzene	ug/L	50	50.1	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.4	109	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	47.5	95	70-130	
Methylene Chloride	ug/L	50	47.5	95	63-130	
Naphthalene	ug/L	50	52.2	104	70-138	
o-Xylene	ug/L	50	51.3	103	70-130	
p-Isopropyltoluene	ug/L	50	49.0	98	70-130	
Styrene	ug/L	50	52.8	106	70-130	
Tetrachloroethene	ug/L	50	48.1	96	70-130	
Toluene	ug/L	50	43.0	86	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.2	90	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.3	95	70-132	
Trichloroethene	ug/L	50	46.2	92	70-130	
Trichlorofluoromethane	ug/L	50	50.5	101	62-133	
Vinyl acetate	ug/L	100	96.2	96	66-157	
Vinyl chloride	ug/L	50	39.0	78	50-150	
Xylene (Total)	ug/L	150	154	102	70-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			94	70-130	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Parameter	Units	92331006001		1939629		1939630		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.4	21.2	102	106	70-130	4	30		
1,1,1-Trichloroethane	ug/L	ND	20	20	20.1	19.1	100	96	70-130	5	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.5	20.5	103	102	70-130	0	30		
1,1,2-Trichloroethane	ug/L	ND	20	20	18.9	19.6	95	98	70-130	3	30		
1,1-Dichloroethane	ug/L	ND	20	20	20.0	18.9	100	94	70-130	6	30		
1,1-Dichloroethene	ug/L	ND	20	20	22.5	21.1	113	106	70-166	6	30		
1,1-Dichloropropene	ug/L	ND	20	20	21.4	20.5	107	103	70-130	4	30		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.2	22.1	106	110	70-130	4	30		
1,2,3-Trichloropropane	ug/L	ND	20	20	20.2	20.2	101	101	70-130	0	30		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.0	21.8	105	109	70-130	4	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.0	20.6	100	103	70-130	3	30		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.8	20.6	99	103	70-130	4	30		
1,2-Dichlorobenzene	ug/L	ND	20	20	21.8	22.0	109	110	70-130	1	30		
1,2-Dichloroethane	ug/L	ND	20	20	18.8	18.4	94	92	70-130	2	30		
1,2-Dichloropropane	ug/L	ND	20	20	20.7	20.1	104	100	70-130	3	30		
1,3-Dichlorobenzene	ug/L	ND	20	20	21.8	21.6	109	108	70-130	1	30		
1,3-Dichloropropane	ug/L	ND	20	20	21.5	22.0	108	110	70-130	2	30		
1,4-Dichlorobenzene	ug/L	ND	20	20	21.8	21.4	109	107	70-130	2	30		
2,2-Dichloropropane	ug/L	ND	20	20	17.7	17.8	89	89	70-130	1	30		
2-Butanone (MEK)	ug/L	ND	40	40	38.6	41.1	96	103	70-130	6	30		
2-Chlorotoluene	ug/L	ND	20	20	21.9	22.3	110	112	70-130	2	30		
2-Hexanone	ug/L	ND	40	40	40.3	43.4	98	106	70-130	8	30		
4-Chlorotoluene	ug/L	ND	20	20	22.0	22.1	110	111	70-130	1	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	38.4	38.9	96	97	70-130	1	30		
Acetone	ug/L	ND	40	40	55.4	59.8	89	99	70-130	8	30		
Benzene	ug/L	ND	20	20	21.5	21.2	107	106	70-148	1	30		
Bromobenzene	ug/L	ND	20	20	21.8	21.7	109	109	70-130	0	30		
Bromochloromethane	ug/L	ND	20	20	21.1	19.5	105	98	70-130	8	30		
Bromodichloromethane	ug/L	ND	20	20	20.1	20.7	101	103	70-130	3	30		
Bromoform	ug/L	ND	20	20	14.1	14.9	71	75	70-130	6	30		
Bromomethane	ug/L	ND	20	20	10.2	12.3	51	62	70-130	19	30 M1		
Carbon tetrachloride	ug/L	ND	20	20	20.9	20.2	105	101	70-130	4	30		
Chlorobenzene	ug/L	ND	20	20	21.4	22.0	107	110	70-146	3	30		
Chloroethane	ug/L	ND	20	20	23.1	20.9	115	104	70-130	10	30		
Chloroform	ug/L	ND	20	20	20.2	19.3	101	97	70-130	4	30		
Chloromethane	ug/L	ND	20	20	19.6	18.7	96	91	70-130	5	30		
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.2	19.1	101	96	70-130	5	30		
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.9	18.4	94	92	70-130	2	30		
Dibromochloromethane	ug/L	ND	20	20	17.1	17.6	85	88	70-130	3	30		
Dibromomethane	ug/L	ND	20	20	20.1	19.9	101	99	70-130	1	30		
Dichlorodifluoromethane	ug/L	ND	20	20	21.2	19.9	106	99	70-130	6	30		
Diisopropyl ether	ug/L	ND	20	20	19.5	18.8	98	94	70-130	4	30		
Ethylbenzene	ug/L	ND	20	20	22.3	22.2	112	111	70-130	1	30		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20.8	23.0	104	115	70-130	10	30		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Parameter	Units	92331006001		1939629		1939630		% Rec	% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec								
m&p-Xylene	ug/L	ND	40	40	43.8	44.1	109	110	70-130	1	30				
Methyl-tert-butyl ether	ug/L	ND	20	20	18.8	18.7	94	94	70-130	0	30				
Methylene Chloride	ug/L	ND	20	20	22.0	20.9	101	96	70-130	5	30				
Naphthalene	ug/L	ND	20	20	20.8	21.8	103	108	70-130	5	30				
o-Xylene	ug/L	ND	20	20	22.1	21.8	110	109	70-130	1	30				
p-Isopropyltoluene	ug/L	ND	20	20	20.9	20.9	104	104	70-130	0	30				
Styrene	ug/L	ND	20	20	21.9	21.5	110	107	70-130	2	30				
Tetrachloroethene	ug/L	ND	20	20	21.5	22.1	104	108	70-130	3	30				
Toluene	ug/L	ND	20	20	20.0	20.3	99	101	70-155	1	30				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.0	18.9	105	95	70-130	10	30				
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.8	18.4	89	92	70-130	3	30				
Trichloroethene	ug/L	ND	20	20	20.8	20.5	103	102	69-151	1	30				
Trichlorofluoromethane	ug/L	ND	20	20	25.5	21.8	128	109	70-130	16	30				
Vinyl acetate	ug/L	ND	40	40	35.8	35.3	90	88	70-130	2	30				
Vinyl chloride	ug/L	ND	20	20	18.2	17.6	91	88	70-130	4	30				
1,2-Dichloroethane-d4 (S)	%							102	97	70-130					
4-Bromofluorobenzene (S)	%							100	99	70-130					
Toluene-d8 (S)	%							96	97	70-130					

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

QC Batch: 349631 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92331101001, 92331101002, 92331101003, 92331101004

METHOD BLANK: 1939695 Matrix: Water
Associated Lab Samples: 92331101001, 92331101002, 92331101003, 92331101004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/24/17 03:10	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/24/17 03:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/24/17 03:10	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/24/17 03:10	
1,1-Dichloroethane	ug/L	ND	1.0	02/24/17 03:10	
1,1-Dichloroethene	ug/L	ND	1.0	02/24/17 03:10	
1,1-Dichloropropene	ug/L	ND	1.0	02/24/17 03:10	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/24/17 03:10	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/24/17 03:10	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/24/17 03:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	02/24/17 03:10	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/24/17 03:10	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/24/17 03:10	
1,2-Dichloroethane	ug/L	ND	1.0	02/24/17 03:10	
1,2-Dichloropropane	ug/L	ND	1.0	02/24/17 03:10	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/24/17 03:10	
1,3-Dichloropropane	ug/L	ND	1.0	02/24/17 03:10	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/24/17 03:10	
2,2-Dichloropropane	ug/L	ND	1.0	02/24/17 03:10	
2-Butanone (MEK)	ug/L	ND	5.0	02/24/17 03:10	
2-Chlorotoluene	ug/L	ND	1.0	02/24/17 03:10	
2-Hexanone	ug/L	ND	5.0	02/24/17 03:10	
4-Chlorotoluene	ug/L	ND	1.0	02/24/17 03:10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/24/17 03:10	
Acetone	ug/L	ND	25.0	02/24/17 03:10	
Benzene	ug/L	ND	1.0	02/24/17 03:10	
Bromobenzene	ug/L	ND	1.0	02/24/17 03:10	
Bromochloromethane	ug/L	ND	1.0	02/24/17 03:10	
Bromodichloromethane	ug/L	ND	1.0	02/24/17 03:10	
Bromoform	ug/L	ND	1.0	02/24/17 03:10	
Bromomethane	ug/L	ND	2.0	02/24/17 03:10	
Carbon tetrachloride	ug/L	ND	1.0	02/24/17 03:10	
Chlorobenzene	ug/L	ND	1.0	02/24/17 03:10	
Chloroethane	ug/L	ND	1.0	02/24/17 03:10	
Chloroform	ug/L	ND	1.0	02/24/17 03:10	
Chloromethane	ug/L	ND	1.0	02/24/17 03:10	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/24/17 03:10	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/24/17 03:10	
Dibromochloromethane	ug/L	ND	1.0	02/24/17 03:10	
Dibromomethane	ug/L	ND	1.0	02/24/17 03:10	
Dichlorodifluoromethane	ug/L	ND	1.0	02/24/17 03:10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

METHOD BLANK: 1939695

Matrix: Water

Associated Lab Samples: 92331101001, 92331101002, 92331101003, 92331101004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	02/24/17 03:10	
Ethylbenzene	ug/L	ND	1.0	02/24/17 03:10	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/24/17 03:10	
m&p-Xylene	ug/L	ND	2.0	02/24/17 03:10	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/24/17 03:10	
Methylene Chloride	ug/L	ND	2.0	02/24/17 03:10	
Naphthalene	ug/L	ND	1.0	02/24/17 03:10	
o-Xylene	ug/L	ND	1.0	02/24/17 03:10	
p-Isopropyltoluene	ug/L	ND	1.0	02/24/17 03:10	
Styrene	ug/L	ND	1.0	02/24/17 03:10	
Tetrachloroethene	ug/L	ND	1.0	02/24/17 03:10	
Toluene	ug/L	ND	1.0	02/24/17 03:10	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/24/17 03:10	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/24/17 03:10	
Trichloroethene	ug/L	ND	1.0	02/24/17 03:10	
Trichlorofluoromethane	ug/L	ND	1.0	02/24/17 03:10	
Vinyl acetate	ug/L	ND	2.0	02/24/17 03:10	
Vinyl chloride	ug/L	ND	1.0	02/24/17 03:10	
Xylene (Total)	ug/L	ND	1.0	02/24/17 03:10	
1,2-Dichloroethane-d4 (S)	%	92	70-130	02/24/17 03:10	
4-Bromofluorobenzene (S)	%	94	70-130	02/24/17 03:10	
Toluene-d8 (S)	%	103	70-130	02/24/17 03:10	

LABORATORY CONTROL SAMPLE: 1939696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.4	113	70-130	
1,1,1-Trichloroethane	ug/L	50	46.0	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	70-130	
1,1,2-Trichloroethane	ug/L	50	47.8	96	70-130	
1,1-Dichloroethane	ug/L	50	46.2	92	70-130	
1,1-Dichloroethene	ug/L	50	49.0	98	70-132	
1,1-Dichloropropene	ug/L	50	50.5	101	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.2	106	70-135	
1,2,3-Trichloropropane	ug/L	50	50.3	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.6	105	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	51.7	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.4	105	70-130	
1,2-Dichlorobenzene	ug/L	50	53.7	107	70-130	
1,2-Dichloroethane	ug/L	50	46.1	92	70-130	
1,2-Dichloropropane	ug/L	50	50.4	101	70-130	
1,3-Dichlorobenzene	ug/L	50	52.8	106	70-130	
1,3-Dichloropropane	ug/L	50	54.2	108	70-130	
1,4-Dichlorobenzene	ug/L	50	52.3	105	70-130	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

LABORATORY CONTROL SAMPLE: 1939696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	41.5	83	58-145	
2-Butanone (MEK)	ug/L	100	94.3	94	70-145	
2-Chlorotoluene	ug/L	50	52.7	105	70-130	
2-Hexanone	ug/L	100	107	107	70-144	
4-Chlorotoluene	ug/L	50	52.4	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.8	99	70-140	
Acetone	ug/L	100	89.9	90	50-175	
Benzene	ug/L	50	51.2	102	70-130	
Bromobenzene	ug/L	50	52.3	105	70-130	
Bromochloromethane	ug/L	50	47.4	95	70-130	
Bromodichloromethane	ug/L	50	52.0	104	70-130	
Bromoform	ug/L	50	42.6	85	70-130	
Bromomethane	ug/L	50	38.6	77	54-130	
Carbon tetrachloride	ug/L	50	49.5	99	70-132	
Chlorobenzene	ug/L	50	51.4	103	70-130	
Chloroethane	ug/L	50	49.8	100	64-134	
Chloroform	ug/L	50	47.4	95	70-130	
Chloromethane	ug/L	50	43.1	86	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.9	92	70-131	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	70-130	
Dibromochloromethane	ug/L	50	46.9	94	70-130	
Dibromomethane	ug/L	50	48.7	97	70-131	
Dichlorodifluoromethane	ug/L	50	46.5	93	56-130	
Diisopropyl ether	ug/L	50	49.6	99	70-130	
Ethylbenzene	ug/L	50	52.3	105	70-130	
Hexachloro-1,3-butadiene	ug/L	50	53.5	107	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	49.2	98	70-130	
Methylene Chloride	ug/L	50	48.4	97	63-130	
Naphthalene	ug/L	50	53.3	107	70-138	
o-Xylene	ug/L	50	52.6	105	70-130	
p-Isopropyltoluene	ug/L	50	51.3	103	70-130	
Styrene	ug/L	50	53.6	107	70-130	
Tetrachloroethene	ug/L	50	52.3	105	70-130	
Toluene	ug/L	50	47.9	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.9	94	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.2	98	70-132	
Trichloroethene	ug/L	50	49.2	98	70-130	
Trichlorofluoromethane	ug/L	50	53.2	106	62-133	
Vinyl acetate	ug/L	100	99.2	99	66-157	
Vinyl chloride	ug/L	50	40.0	80	50-150	
Xylene (Total)	ug/L	150	155	104	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

MATRIX SPIKE SAMPLE: 1940221		92330922006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.7	104	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	20.2	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.3	107	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.0	100	70-130	
1,1-Dichloroethane	ug/L	ND	20	19.9	99	70-130	
1,1-Dichloroethene	ug/L	ND	20	21.4	107	70-166	
1,1-Dichloropropene	ug/L	ND	20	21.6	108	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.7	113	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.5	107	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	22.8	114	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20.6	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.9	104	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	22.4	112	70-130	
1,2-Dichloroethane	ug/L	ND	20	18.6	93	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.4	107	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	22.5	112	70-130	
1,3-Dichloropropane	ug/L	ND	20	22.8	114	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	21.6	108	70-130	
2,2-Dichloropropane	ug/L	ND	20	19.4	97	70-130	
2-Butanone (MEK)	ug/L	ND	40	36.5	91	70-130	
2-Chlorotoluene	ug/L	ND	20	22.5	112	70-130	
2-Hexanone	ug/L	ND	40	37.2	93	70-130	
4-Chlorotoluene	ug/L	ND	20	22.4	112	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	37.0	92	70-130	
Acetone	ug/L	ND	40	33.4	78	70-130	
Benzene	ug/L	ND	20	21.5	108	70-148	
Bromobenzene	ug/L	ND	20	21.7	109	70-130	
Bromochloromethane	ug/L	ND	20	20.4	102	70-130	
Bromodichloromethane	ug/L	ND	20	20.3	101	70-130	
Bromoform	ug/L	ND	20	15.0	75	70-130	
Bromomethane	ug/L	ND	20	15.9	80	70-130	
Carbon tetrachloride	ug/L	ND	20	19.2	96	70-130	
Chlorobenzene	ug/L	ND	20	21.7	109	70-146	
Chloroethane	ug/L	ND	20	22.0	110	70-130	
Chloroform	ug/L	ND	20	20.3	101	70-130	
Chloromethane	ug/L	ND	20	18.4	92	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	19.4	97	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	20.1	101	70-130	
Dibromochloromethane	ug/L	ND	20	17.2	86	70-130	
Dibromomethane	ug/L	ND	20	19.7	99	70-130	
Dichlorodifluoromethane	ug/L	ND	20	20.3	101	70-130	
Diisopropyl ether	ug/L	ND	20	19.3	97	70-130	
Ethylbenzene	ug/L	ND	20	22.1	110	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	21.8	109	70-130	
m&p-Xylene	ug/L	ND	40	45.0	113	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.9	99	70-130	
Methylene Chloride	ug/L	ND	20	20.7	95	70-130	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

MATRIX SPIKE SAMPLE: 1940221		92330922006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	ND	20	23.5	117	70-130	
o-Xylene	ug/L	ND	20	22.2	111	70-130	
p-Isopropyltoluene	ug/L	ND	20	22.4	112	70-130	
Styrene	ug/L	ND	20	22.5	112	70-130	
Tetrachloroethene	ug/L	ND	20	21.6	108	70-130	
Toluene	ug/L	ND	20	20.6	103	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	20.4	102	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	19.2	96	70-130	
Trichloroethene	ug/L	ND	20	21.0	105	69-151	
Trichlorofluoromethane	ug/L	ND	20	23.8	119	70-130	
Vinyl acetate	ug/L	ND	40	34.5	86	70-130	
Vinyl chloride	ug/L	ND	20	17.5	87	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				94	70-130	

SAMPLE DUPLICATE: 1940222

Parameter	Units	92330922007	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

SAMPLE DUPLICATE: 1940222

Parameter	Units	92330922007 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	1.4J		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	94	92	2		
4-Bromofluorobenzene (S)	%	96	95	1		
Toluene-d8 (S)	%	107	106	2		

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

QC Batch: 349951 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92331101005, 92331101013

METHOD BLANK: 1941312 Matrix: Water

Associated Lab Samples: 92331101005, 92331101013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/27/17 11:30	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/27/17 11:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/27/17 11:30	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/27/17 11:30	
1,1-Dichloroethane	ug/L	ND	1.0	02/27/17 11:30	
1,1-Dichloroethene	ug/L	ND	1.0	02/27/17 11:30	
1,1-Dichloropropene	ug/L	ND	1.0	02/27/17 11:30	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/27/17 11:30	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/27/17 11:30	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/27/17 11:30	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	02/27/17 11:30	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/27/17 11:30	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/27/17 11:30	
1,2-Dichloroethane	ug/L	ND	1.0	02/27/17 11:30	
1,2-Dichloropropane	ug/L	ND	1.0	02/27/17 11:30	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/27/17 11:30	
1,3-Dichloropropane	ug/L	ND	1.0	02/27/17 11:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/27/17 11:30	
2,2-Dichloropropane	ug/L	ND	1.0	02/27/17 11:30	
2-Butanone (MEK)	ug/L	ND	5.0	02/27/17 11:30	
2-Chlorotoluene	ug/L	ND	1.0	02/27/17 11:30	
2-Hexanone	ug/L	ND	5.0	02/27/17 11:30	
4-Chlorotoluene	ug/L	ND	1.0	02/27/17 11:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/27/17 11:30	
Acetone	ug/L	ND	25.0	02/27/17 11:30	
Benzene	ug/L	ND	1.0	02/27/17 11:30	
Bromobenzene	ug/L	ND	1.0	02/27/17 11:30	
Bromochloromethane	ug/L	ND	1.0	02/27/17 11:30	
Bromodichloromethane	ug/L	ND	1.0	02/27/17 11:30	
Bromoform	ug/L	ND	1.0	02/27/17 11:30	
Bromomethane	ug/L	ND	2.0	02/27/17 11:30	
Carbon tetrachloride	ug/L	ND	1.0	02/27/17 11:30	
Chlorobenzene	ug/L	ND	1.0	02/27/17 11:30	
Chloroethane	ug/L	ND	1.0	02/27/17 11:30	
Chloroform	ug/L	ND	1.0	02/27/17 11:30	
Chloromethane	ug/L	ND	1.0	02/27/17 11:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/27/17 11:30	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/27/17 11:30	
Dibromochloromethane	ug/L	ND	1.0	02/27/17 11:30	
Dibromomethane	ug/L	ND	1.0	02/27/17 11:30	
Dichlorodifluoromethane	ug/L	ND	1.0	02/27/17 11:30	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

METHOD BLANK: 1941312

Matrix: Water

Associated Lab Samples: 92331101005, 92331101013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	02/27/17 11:30	
Ethylbenzene	ug/L	ND	1.0	02/27/17 11:30	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/27/17 11:30	
m&p-Xylene	ug/L	ND	2.0	02/27/17 11:30	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/27/17 11:30	
Methylene Chloride	ug/L	ND	2.0	02/27/17 11:30	
Naphthalene	ug/L	ND	1.0	02/27/17 11:30	
o-Xylene	ug/L	ND	1.0	02/27/17 11:30	
p-Isopropyltoluene	ug/L	ND	1.0	02/27/17 11:30	
Styrene	ug/L	ND	1.0	02/27/17 11:30	
Tetrachloroethene	ug/L	ND	1.0	02/27/17 11:30	
Toluene	ug/L	ND	1.0	02/27/17 11:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/27/17 11:30	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/27/17 11:30	
Trichloroethene	ug/L	ND	1.0	02/27/17 11:30	
Trichlorofluoromethane	ug/L	ND	1.0	02/27/17 11:30	
Vinyl acetate	ug/L	ND	2.0	02/27/17 11:30	
Vinyl chloride	ug/L	ND	1.0	02/27/17 11:30	
Xylene (Total)	ug/L	ND	1.0	02/27/17 11:30	
1,2-Dichloroethane-d4 (S)	%	90	70-130	02/27/17 11:30	
4-Bromofluorobenzene (S)	%	94	70-130	02/27/17 11:30	
Toluene-d8 (S)	%	107	70-130	02/27/17 11:30	

LABORATORY CONTROL SAMPLE: 1941313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.0	108	70-130	
1,1,1-Trichloroethane	ug/L	50	43.4	87	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.5	101	70-130	
1,1,2-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1-Dichloroethane	ug/L	50	43.3	87	70-130	
1,1-Dichloroethene	ug/L	50	45.4	91	70-132	
1,1-Dichloropropene	ug/L	50	47.0	94	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.7	105	70-135	
1,2,3-Trichloropropane	ug/L	50	50.4	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.7	105	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	51.4	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.4	101	70-130	
1,2-Dichlorobenzene	ug/L	50	53.2	106	70-130	
1,2-Dichloroethane	ug/L	50	41.1	82	70-130	
1,2-Dichloropropane	ug/L	50	48.9	98	70-130	
1,3-Dichlorobenzene	ug/L	50	52.3	105	70-130	
1,3-Dichloropropane	ug/L	50	52.7	105	70-130	
1,4-Dichlorobenzene	ug/L	50	52.3	105	70-130	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

LABORATORY CONTROL SAMPLE: 1941313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	43.6	87	58-145	
2-Butanone (MEK)	ug/L	100	81.7	82	70-145	
2-Chlorotoluene	ug/L	50	51.6	103	70-130	
2-Hexanone	ug/L	100	92.7	93	70-144	
4-Chlorotoluene	ug/L	50	51.9	104	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	87.9	88	70-140	
Acetone	ug/L	100	81.6	82	50-175	
Benzene	ug/L	50	49.4	99	70-130	
Bromobenzene	ug/L	50	52.5	105	70-130	
Bromochloromethane	ug/L	50	46.1	92	70-130	
Bromodichloromethane	ug/L	50	49.1	98	70-130	
Bromoform	ug/L	50	43.8	88	70-130	
Bromomethane	ug/L	50	47.1	94	54-130	
Carbon tetrachloride	ug/L	50	47.3	95	70-132	
Chlorobenzene	ug/L	50	50.3	101	70-130	
Chloroethane	ug/L	50	47.0	94	64-134	
Chloroform	ug/L	50	44.4	89	70-130	
Chloromethane	ug/L	50	39.3	79	64-130	
cis-1,2-Dichloroethene	ug/L	50	42.5	85	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.6	103	70-130	
Dibromochloromethane	ug/L	50	46.0	92	70-130	
Dibromomethane	ug/L	50	47.0	94	70-131	
Dichlorodifluoromethane	ug/L	50	40.3	81	56-130	
Diisopropyl ether	ug/L	50	43.2	86	70-130	
Ethylbenzene	ug/L	50	50.1	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.8	110	70-130	
m&p-Xylene	ug/L	100	97.5	98	70-130	
Methyl-tert-butyl ether	ug/L	50	46.9	94	70-130	
Methylene Chloride	ug/L	50	40.6	81	63-130	
Naphthalene	ug/L	50	52.8	106	70-138	
o-Xylene	ug/L	50	49.5	99	70-130	
p-Isopropyltoluene	ug/L	50	52.0	104	70-130	
Styrene	ug/L	50	51.0	102	70-130	
Tetrachloroethene	ug/L	50	50.2	100	70-130	
Toluene	ug/L	50	47.5	95	70-130	
trans-1,2-Dichloroethene	ug/L	50	44.5	89	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.9	100	70-132	
Trichloroethene	ug/L	50	48.4	97	70-130	
Trichlorofluoromethane	ug/L	50	44.9	90	62-133	
Vinyl acetate	ug/L	100	85.5	86	66-157	
Vinyl chloride	ug/L	50	38.1	76	50-150	
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Parameter	Units	92331346001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual	
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec								
MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1941314																	
1,1,1,2-Tetrachloroethane	ug/L			20	20	18.8	18.7	94	93	70-130	1	30					
1,1,1-Trichloroethane	ug/L			20	20	20.0	18.2	100	91	70-130	9	30					
1,1,2,2-Tetrachloroethane	ug/L			20	20	19.9	18.9	100	94	70-130	5	30					
1,1,2-Trichloroethane	ug/L			20	20	19.4	17.9	97	89	70-130	8	30					
1,1-Dichloroethane	ug/L			20	20	19.8	18.3	99	91	70-130	8	30					
1,1-Dichloroethene	ug/L			20	20	21.7	19.5	108	98	70-166	11	30					
1,1-Dichloropropene	ug/L			20	20	21.4	20.1	107	100	70-130	6	30					
1,2,3-Trichlorobenzene	ug/L			20	20	22.1	21.6	110	108	70-130	2	30					
1,2,3-Trichloropropane	ug/L			20	20	19.0	18.4	95	92	70-130	3	30					
1,2,4-Trichlorobenzene	ug/L			20	20	22.4	20.5	112	103	70-130	9	30					
1,2-Dibromo-3-chloropropane	ug/L			20	20	19.8	19.4	99	97	70-130	2	30					
1,2-Dibromoethane (EDB)	ug/L			20	20	19.9	19.1	100	95	70-130	4	30					
1,2-Dichlorobenzene	ug/L			20	20	21.1	20.4	105	102	70-130	3	30					
1,2-Dichloroethane	ug/L			20	20	18.1	16.5	90	82	70-130	9	30					
1,2-Dichloropropane	ug/L			20	20	20.7	18.9	104	94	70-130	9	30					
1,3-Dichlorobenzene	ug/L			20	20	20.6	20.2	103	101	70-130	2	30					
1,3-Dichloropropane	ug/L			20	20	20.9	19.4	104	97	70-130	8	30					
1,4-Dichlorobenzene	ug/L			20	20	21.2	20.3	106	101	70-130	4	30					
2,2-Dichloropropane	ug/L			20	20	20.6	19.1	103	96	70-130	7	30					
2-Butanone (MEK)	ug/L			40	40	39.3	34.2	88	75	70-130	14	30					
2-Chlorotoluene	ug/L			20	20	20.6	19.6	103	98	70-130	5	30					
2-Hexanone	ug/L			40	40	39.3	33.8	98	85	70-130	15	30					
4-Chlorotoluene	ug/L			20	20	20.6	20.0	103	100	70-130	3	30					
4-Methyl-2-pentanone (MIBK)	ug/L			40	40	32.1	30.6	80	76	70-130	5	30					
Acetone	ug/L			40	40	60.4	42.9	110	66	70-130	34	30	M1,R1				
Benzene	ug/L	2.9		20	20	24.4	22.6	108	99	70-148	8	30					
Bromobenzene	ug/L			20	20	20.7	21.0	103	105	70-130	2	30					
Bromochloromethane	ug/L			20	20	20.3	18.6	101	93	70-130	9	30					
Bromodichloromethane	ug/L			20	20	20.5	18.4	102	92	70-130	10	30					
Bromoform	ug/L			20	20	15.1	14.5	76	72	70-130	4	30					
Bromomethane	ug/L			20	20	18.3	19.5	92	98	70-130	6	30					
Carbon tetrachloride	ug/L			20	20	20.8	18.2	104	91	70-130	13	30					
Chlorobenzene	ug/L			20	20	20.1	19.6	101	98	70-146	3	30					
Chloroethane	ug/L			20	20	21.8	20.6	109	103	70-130	6	30					
Chloroform	ug/L			20	20	20.4	18.7	102	93	70-130	9	30					
Chloromethane	ug/L			20	20	18.9	17.5	92	85	70-130	8	30					
cis-1,2-Dichloroethene	ug/L			20	20	19.2	17.9	96	90	70-130	7	30					
cis-1,3-Dichloropropene	ug/L			20	20	20.4	18.4	102	92	70-130	11	30					
Dibromochloromethane	ug/L			20	20	17.0	15.9	85	79	70-130	7	30					
Dibromomethane	ug/L			20	20	19.9	17.7	100	88	70-130	12	30					
Dichlorodifluoromethane	ug/L			20	20	19.5	18.2	98	91	70-130	7	30					
Diisopropyl ether	ug/L			20	20	16.5	16.0	83	80	70-130	3	30					
Ethylbenzene	ug/L	ND		20	20	21.8	20.1	108	99	70-130	8	30					
Hexachloro-1,3-butadiene	ug/L			20	20	25.5	23.1	128	116	70-130	10	30					

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Parameter	Units	92331346001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec								
m&p-Xylene	ug/L	2.9	40	40	45.3	41.0	106	95	70-130	10	30					
Methyl-tert-butyl ether	ug/L		20	20	19.0	18.4	94	91	70-130	3	30					
Methylene Chloride	ug/L		20	20	18.7	17.7	88	83	70-130	6	30					
Naphthalene	ug/L	ND	20	20	22.4	21.4	108	103	70-130	4	30					
o-Xylene	ug/L	ND	20	20	21.0	19.1	105	96	70-130	9	30					
p-Isopropyltoluene	ug/L		20	20	20.5	19.6	102	98	70-130	4	30					
Styrene	ug/L		20	20	21.4	20.0	107	100	70-130	7	30					
Tetrachloroethene	ug/L		20	20	19.8	19.4	99	97	70-130	2	30					
Toluene	ug/L	2.0	20	20	21.4	20.4	97	92	70-155	5	30					
trans-1,2-Dichloroethene	ug/L		20	20	20.4	18.9	102	94	70-130	8	30					
trans-1,3-Dichloropropene	ug/L		20	20	19.0	17.8	95	89	70-130	7	30					
Trichloroethene	ug/L		20	20	20.2	18.8	101	94	69-151	7	30					
Trichlorofluoromethane	ug/L		20	20	21.9	20.8	110	104	70-130	5	30					
Vinyl acetate	ug/L		40	40	34.9	32.0	87	80	70-130	9	30					
Vinyl chloride	ug/L		20	20	18.3	16.8	91	84	70-130	9	30					
1,2-Dichloroethane-d4 (S)	%							96	96	70-130						
4-Bromofluorobenzene (S)	%							98	96	70-130						
Toluene-d8 (S)	%							97	96	70-130						

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

QC Batch:	350182	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV Low Level
Associated Lab Samples:	92331101012		

METHOD BLANK: 1942410 Matrix: Water

Associated Lab Samples: 92331101012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/28/17 19:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/28/17 19:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/28/17 19:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/28/17 19:11	
1,1-Dichloroethane	ug/L	ND	1.0	02/28/17 19:11	
1,1-Dichloroethene	ug/L	ND	1.0	02/28/17 19:11	
1,1-Dichloropropene	ug/L	ND	1.0	02/28/17 19:11	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/28/17 19:11	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/28/17 19:11	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/28/17 19:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	02/28/17 19:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/28/17 19:11	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/28/17 19:11	
1,2-Dichloroethane	ug/L	ND	1.0	02/28/17 19:11	
1,2-Dichloropropane	ug/L	ND	1.0	02/28/17 19:11	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/28/17 19:11	
1,3-Dichloropropane	ug/L	ND	1.0	02/28/17 19:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/28/17 19:11	
2,2-Dichloropropane	ug/L	ND	1.0	02/28/17 19:11	
2-Butanone (MEK)	ug/L	ND	5.0	02/28/17 19:11	
2-Chlorotoluene	ug/L	ND	1.0	02/28/17 19:11	
2-Hexanone	ug/L	ND	5.0	02/28/17 19:11	
4-Chlorotoluene	ug/L	ND	1.0	02/28/17 19:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/28/17 19:11	
Acetone	ug/L	ND	25.0	02/28/17 19:11	
Benzene	ug/L	ND	1.0	02/28/17 19:11	
Bromobenzene	ug/L	ND	1.0	02/28/17 19:11	
Bromochloromethane	ug/L	ND	1.0	02/28/17 19:11	
Bromodichloromethane	ug/L	ND	1.0	02/28/17 19:11	
Bromoform	ug/L	ND	1.0	02/28/17 19:11	
Bromomethane	ug/L	ND	2.0	02/28/17 19:11	
Carbon tetrachloride	ug/L	ND	1.0	02/28/17 19:11	
Chlorobenzene	ug/L	ND	1.0	02/28/17 19:11	
Chloroethane	ug/L	ND	1.0	02/28/17 19:11	
Chloroform	ug/L	ND	1.0	02/28/17 19:11	
Chloromethane	ug/L	ND	1.0	02/28/17 19:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/28/17 19:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/28/17 19:11	
Dibromochloromethane	ug/L	ND	1.0	02/28/17 19:11	
Dibromomethane	ug/L	ND	1.0	02/28/17 19:11	
Dichlorodifluoromethane	ug/L	ND	1.0	02/28/17 19:11	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

METHOD BLANK: 1942410

Matrix: Water

Associated Lab Samples: 92331101012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	02/28/17 19:11	
Ethylbenzene	ug/L	ND	1.0	02/28/17 19:11	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/28/17 19:11	
m&p-Xylene	ug/L	ND	2.0	02/28/17 19:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/28/17 19:11	
Methylene Chloride	ug/L	ND	2.0	02/28/17 19:11	
Naphthalene	ug/L	ND	1.0	02/28/17 19:11	
o-Xylene	ug/L	ND	1.0	02/28/17 19:11	
p-Isopropyltoluene	ug/L	ND	1.0	02/28/17 19:11	
Styrene	ug/L	ND	1.0	02/28/17 19:11	
Tetrachloroethene	ug/L	ND	1.0	02/28/17 19:11	
Toluene	ug/L	ND	1.0	02/28/17 19:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/28/17 19:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/28/17 19:11	
Trichloroethene	ug/L	ND	1.0	02/28/17 19:11	
Trichlorofluoromethane	ug/L	ND	1.0	02/28/17 19:11	
Vinyl acetate	ug/L	ND	2.0	02/28/17 19:11	
Vinyl chloride	ug/L	ND	1.0	02/28/17 19:11	
Xylene (Total)	ug/L	ND	1.0	02/28/17 19:11	
1,2-Dichloroethane-d4 (S)	%	96	70-130	02/28/17 19:11	
4-Bromofluorobenzene (S)	%	86	70-130	02/28/17 19:11	
Toluene-d8 (S)	%	95	70-130	02/28/17 19:11	

LABORATORY CONTROL SAMPLE: 1942411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.5	95	70-130	
1,1,1-Trichloroethane	ug/L	50	45.3	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.0	94	70-130	
1,1,2-Trichloroethane	ug/L	50	47.1	94	70-130	
1,1-Dichloroethane	ug/L	50	43.8	88	70-130	
1,1-Dichloroethene	ug/L	50	46.7	93	70-132	
1,1-Dichloropropene	ug/L	50	46.5	93	70-130	
1,2,3-Trichlorobenzene	ug/L	50	48.5	97	70-135	
1,2,3-Trichloropropane	ug/L	50	46.9	94	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.3	95	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	51.7	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	46.8	94	70-130	
1,2-Dichlorobenzene	ug/L	50	47.4	95	70-130	
1,2-Dichloroethane	ug/L	50	44.3	89	70-130	
1,2-Dichloropropane	ug/L	50	45.8	92	70-130	
1,3-Dichlorobenzene	ug/L	50	47.5	95	70-130	
1,3-Dichloropropane	ug/L	50	46.6	93	70-130	
1,4-Dichlorobenzene	ug/L	50	45.8	92	70-130	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

LABORATORY CONTROL SAMPLE: 1942411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	46.1	92	58-145	
2-Butanone (MEK)	ug/L	100	100	100	70-145	
2-Chlorotoluene	ug/L	50	48.6	97	70-130	
2-Hexanone	ug/L	100	100	100	70-144	
4-Chlorotoluene	ug/L	50	48.6	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	70-140	
Acetone	ug/L	100	111	111	50-175	
Benzene	ug/L	50	47.0	94	70-130	
Bromobenzene	ug/L	50	49.0	98	70-130	
Bromochloromethane	ug/L	50	44.8	90	70-130	
Bromodichloromethane	ug/L	50	47.0	94	70-130	
Bromoform	ug/L	50	46.5	93	70-130	
Bromomethane	ug/L	50	45.3	91	54-130	
Carbon tetrachloride	ug/L	50	46.6	93	70-132	
Chlorobenzene	ug/L	50	47.5	95	70-130	
Chloroethane	ug/L	50	46.7	93	64-134	
Chloroform	ug/L	50	43.7	87	70-130	
Chloromethane	ug/L	50	43.3	87	64-130	
cis-1,2-Dichloroethene	ug/L	50	44.8	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	47.4	95	70-130	
Dibromochloromethane	ug/L	50	49.0	98	70-130	
Dibromomethane	ug/L	50	49.2	98	70-131	
Dichlorodifluoromethane	ug/L	50	41.8	84	56-130	
Diisopropyl ether	ug/L	50	47.0	94	70-130	
Ethylbenzene	ug/L	50	46.4	93	70-130	
Hexachloro-1,3-butadiene	ug/L	50	48.9	98	70-130	
m&p-Xylene	ug/L	100	93.4	93	70-130	
Methyl-tert-butyl ether	ug/L	50	46.0	92	70-130	
Methylene Chloride	ug/L	50	47.7	95	63-130	
Naphthalene	ug/L	50	49.7	99	70-138	
o-Xylene	ug/L	50	45.5	91	70-130	
p-Isopropyltoluene	ug/L	50	46.2	92	70-130	
Styrene	ug/L	50	47.7	95	70-130	
Tetrachloroethene	ug/L	50	45.4	91	70-130	
Toluene	ug/L	50	46.4	93	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.2	90	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.7	93	70-132	
Trichloroethene	ug/L	50	47.6	95	70-130	
Trichlorofluoromethane	ug/L	50	52.2	104	62-133	
Vinyl acetate	ug/L	100	101	101	66-157	
Vinyl chloride	ug/L	50	38.7	77	50-150	
Xylene (Total)	ug/L	150	139	93	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

MATRIX SPIKE SAMPLE:	1943145	92331303002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L			21.5			
1,1,1-Trichloroethane	ug/L	ND	20	24.5	122	70-130	
1,1,2,2-Tetrachloroethane	ug/L			21.3			
1,1,2-Trichloroethane	ug/L	ND	20	21.6	108	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.9	114	70-130	
1,1-Dichloroethene	ug/L	ND	20	25.7	128	70-166	
1,1-Dichloropropene	ug/L			24.6			
1,2,3-Trichlorobenzene	ug/L			21.5			
1,2,3-Trichloropropane	ug/L			20.9			
1,2,4-Trichlorobenzene	ug/L			21.3			
1,2-Dibromo-3-chloropropane	ug/L			19.3			
1,2-Dibromoethane (EDB)	ug/L			20.8			
1,2-Dichlorobenzene	ug/L	ND	20	21.3	107	70-130	
1,2-Dichloroethane	ug/L			22.0			
1,2-Dichloropropane	ug/L			22.1			
1,3-Dichlorobenzene	ug/L			21.9			
1,3-Dichloropropane	ug/L			21.5			
1,4-Dichlorobenzene	ug/L			21.6			
2,2-Dichloropropane	ug/L			20.3			
2-Butanone (MEK)	ug/L	ND	40	43.0	108	70-130	
2-Chlorotoluene	ug/L			21.1			
2-Hexanone	ug/L	ND	40	42.5	106	70-130	
4-Chlorotoluene	ug/L			21.5			
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	42.8	107	70-130	
Acetone	ug/L	ND	40	47.1	113	70-130	
Benzene	ug/L	ND	20	23.0	115	70-148	
Bromobenzene	ug/L			21.2			
Bromochloromethane	ug/L			21.8			
Bromodichloromethane	ug/L			23.3			
Bromoform	ug/L			19.1			
Bromomethane	ug/L			23.6			
Carbon tetrachloride	ug/L	ND	20	23.0	115	70-130	
Chlorobenzene	ug/L	ND	20	22.5	112	70-146	
Chloroethane	ug/L			25.6			
Chloroform	ug/L	1.4	20	24.8	117	70-130	
Chloromethane	ug/L	ND	20	25.6	128	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	23.7	118	70-130	
cis-1,3-Dichloropropene	ug/L			21.2			
Dibromochloromethane	ug/L			20.4			
Dibromomethane	ug/L			21.8			
Dichlorodifluoromethane	ug/L			22.2			
Diisopropyl ether	ug/L			22.9			
Ethylbenzene	ug/L			22.8			
Hexachloro-1,3-butadiene	ug/L			21.9			
m&p-Xylene	ug/L			45.7			
Methyl-tert-butyl ether	ug/L			22.9			
Methylene Chloride	ug/L	ND	20	23.1	115	70-130	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY
Pace Project No.: 92331101

MATRIX SPIKE SAMPLE: 1943145		92331303002	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
Naphthalene	ug/L	ND	20	23.7	119	70-130	
o-Xylene	ug/L			22.4			
p-Isopropyltoluene	ug/L	ND	20	21.2	106	70-130	
Styrene	ug/L			22.5			
Tetrachloroethene	ug/L	ND	20	20.7	103	70-130	
Toluene	ug/L	ND	20	22.6	113	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	24.5	122	70-130	
trans-1,3-Dichloropropene	ug/L			20.4			
Trichloroethene	ug/L	ND	20	22.4	112	69-151	
Trichlorofluoromethane	ug/L			27.8			
Vinyl acetate	ug/L			37.5			
Vinyl chloride	ug/L	ND	20	22.6	113	70-130	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1943146

Parameter	Units	92331303006	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L		ND			
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L		ND			
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	0.58J	.51J		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L		ND			
1,2,3-Trichlorobenzene	ug/L		ND			
1,2,3-Trichloropropane	ug/L		ND			
1,2,4-Trichlorobenzene	ug/L		ND			
1,2-Dibromo-3-chloropropane	ug/L		ND			
1,2-Dibromoethane (EDB)	ug/L		ND			
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L		ND			
1,2-Dichloropropane	ug/L		ND			
1,3-Dichlorobenzene	ug/L		ND			
1,3-Dichloropropane	ug/L		ND			
1,4-Dichlorobenzene	ug/L		ND			
2,2-Dichloropropane	ug/L		ND			
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L		ND			
2-Hexanone	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L		ND			
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

SAMPLE DUPLICATE: 1943146

Parameter	Units	92331303006 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L		ND			
Bromochloromethane	ug/L		ND			
Bromodichloromethane	ug/L		ND			
Bromoform	ug/L		ND			
Bromomethane	ug/L		ND			
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L		ND			
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	54.0	50.2	7	30	
cis-1,3-Dichloropropene	ug/L		ND			
Dibromochloromethane	ug/L		ND			
Dibromomethane	ug/L		ND			
Dichlorodifluoromethane	ug/L		ND			
Diisopropyl ether	ug/L		ND			
Ethylbenzene	ug/L		ND			
Hexachloro-1,3-butadiene	ug/L		ND			
m&p-Xylene	ug/L		ND			
Methyl-tert-butyl ether	ug/L		ND			
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L		ND			
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L		ND			
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L		ND			
Trichloroethene	ug/L	71.4	70.0	2	30	
Trichlorofluoromethane	ug/L		ND			
Vinyl acetate	ug/L		ND			
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L		ND			
1,2-Dichloroethane-d4 (S)	%	108	104	3		
4-Bromofluorobenzene (S)	%	85	96	13		
Toluene-d8 (S)	%	100	102	2		

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

QC Batch: 349967 Analysis Method: EPA 8260B Mod.
 QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
 Associated Lab Samples: 92331101001, 92331101003, 92331101004, 92331101005, 92331101006, 92331101007, 92331101008, 92331101009, 92331101010, 92331101011, 92331101012, 92331101013

METHOD BLANK: 1941375 Matrix: Water
 Associated Lab Samples: 92331101001, 92331101003, 92331101004, 92331101005, 92331101006, 92331101007, 92331101008, 92331101009, 92331101010, 92331101011, 92331101012, 92331101013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	02/28/17 00:40	
1,2-Dichloroethane-d4 (S)	%	94	50-150	02/28/17 00:40	
Toluene-d8 (S)	%	97	50-150	02/28/17 00:40	

LABORATORY CONTROL SAMPLE: 1941376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.2	101	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			103	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1941377 1941378

Parameter	Units	92331101003		1941377		1941378		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,4-Dioxane (p-Dioxane)	ug/L	3.0	20	20	17.1	19.9	70	84	50-150	15	30	
1,2-Dichloroethane-d4 (S)	%						92	91	50-150		150	
Toluene-d8 (S)	%						97	96	50-150		150	

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

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QUALITY CONTROL DATA

Project: FORMER KOP FLEX FACILITY
Pace Project No.: 92331101

QC Batch: 350144 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92331101002

METHOD BLANK: 1942202 Matrix: Water
Associated Lab Samples: 92331101002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	02/28/17 13:36	
1,2-Dichloroethane-d4 (S)	%	95	50-150	02/28/17 13:36	
Toluene-d8 (S)	%	101	50-150	02/28/17 13:36	

LABORATORY CONTROL SAMPLE: 1942203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	18.3	92	71-125	
1,2-Dichloroethane-d4 (S)	%			99	50-150	
Toluene-d8 (S)	%			106	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1942204 1942205

Parameter	Units	92331303014		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	20.6	20.8	99	100	50-150	1	30		
1,2-Dichloroethane-d4 (S)	%						99	95	50-150		150		
Toluene-d8 (S)	%						104	100	50-150		150		

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

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QUALIFIERS

Project: FORMER KOP FLEX FACILITY
Pace Project No.: 92331101

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.

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

C9 Common Laboratory Contaminant.

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORMER KOP FLEX FACILITY

Pace Project No.: 92331101

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92331101001	MW-25-130	EPA 8260	349631		
92331101002	MW-100	EPA 8260	349631		
92331101003	MW-25-40	EPA 8260	349631		
92331101004	MW-25-190	EPA 8260	349631		
92331101005	MW-28-45	EPA 8260	349951		
92331101006	MW-28-210	EPA 8260	349620		
92331101007	MW-33-235	EPA 8260	349620		
92331101008	MW-33-295	EPA 8260	349620		
92331101009	MW-31-280	EPA 8260	349620		
92331101010	MW-35-298	EPA 8260	349620		
92331101011	EB-02212017	EPA 8260	349620		
92331101012	IDW-02212017	EPA 8260	350182		
92331101013	TRIP BLANK	EPA 8260	349951		
92331101001	MW-25-130	EPA 8260B Mod.	349967		
92331101002	MW-100	EPA 8260B Mod.	350144		
92331101003	MW-25-40	EPA 8260B Mod.	349967		
92331101004	MW-25-190	EPA 8260B Mod.	349967		
92331101005	MW-28-45	EPA 8260B Mod.	349967		
92331101006	MW-28-210	EPA 8260B Mod.	349967		
92331101007	MW-33-235	EPA 8260B Mod.	349967		
92331101008	MW-33-295	EPA 8260B Mod.	349967		
92331101009	MW-31-280	EPA 8260B Mod.	349967		
92331101010	MW-35-298	EPA 8260B Mod.	349967		
92331101011	EB-02212017	EPA 8260B Mod.	349967		
92331101012	IDW-02212017	EPA 8260B Mod.	349967		
92331101013	TRIP BLANK	EPA 8260B Mod.	349967		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.01

Document Revised: Sept. 21, 2016
 Page 1 of 2
 Issuing Authority:
 Pace Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name:

WSP

Project

WO# : 92331101

Courier: Commercial Fed Ex Pace UPS USPS Other: Client



Date/Initials Person Examining Contents: ma/ab

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other:

Thermometer: IR Gun ID: T1603 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Correction Factor: Cooler Temp Corrected (°C): 31 Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C

USDA Regulated Soil (N/A, water sample)

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

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

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

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Sample Discrepancy: _____

Project Manager SCURF Review: [Signature]

Date: 2/23/17

Project Manager SRF Review: [Signature]

Date: 2/23/17

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)



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

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

Project #

WO# : 92331101

PM: KRG

Due Date: 03/02/17

CLIENT: 92-WSP

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGJU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	5	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	4	/	/	/	/	/	/	/	/	/	/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/

8

pH Adjustment Log for Preserved Samples

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

CHAIN-OF-CUSTODY RECORD

WSP | Parsons Brinckerhoff Office Address

13530 Dulles Technology Drive, Suite 700 Alexandria, VA 22171

Project Name: Former Kip Flex Facility

Project Location: Henover, MD

WSP | Parsons Brinckerhoff Contact Name: Eric Johnson
 WSP | Parsons Brinckerhoff Contact E-mail: @wspgroup.com
 WSP | Parsons Brinckerhoff Contact Phone: 703-709-6500

Project Number & Task: 31400389-2

Sampler(s) Name(s): Rob Walker

Sampler(s) Signature(s): [Signature]

Sample Identification: MW-25-130

Matrix: Ag

Collection Start Date/Time: 2/21 0920

Collection Stop Date/Time: [Blank]

Number of Containers: 5

Requested Analyses & Preservatives: VOCs 8260, 8260 SIM, 1,4 Dioxane

No. 004512 WSP | PARSONS BRINCKERHOFF
 Laboratory Name & Location: Henover, MD
 Laboratory Project Manager: Kevin Godwin
 Requested Turn-Around-Time: Standard 24 HR 48 HR 72 HR ___ HR
 Sample Comments: 97331101

Sample Identification	Matrix	Collection Start Date/Time	Collection Stop Date/Time	Number of Containers	Requested Analyses & Preservatives	Tracking Number(s)	
MW-25-130	Ag	2/21 0920		5	VOCs 8260, 8260 SIM, 1,4 Dioxane	001	
MW-100	Ag	2/21 1200		4		002	
MW-25-40	Ag	2/21 0950		6		003	
MW-25-190	Ag	2/21 1005		6		004	
MW-20-45	Ag	2/21 1035		6		005	
MW-28-210	Ag	2/21 1055		6		006	
MW-33-235	Ag	2/21 1220		6		007	
MW-33-295	Ag	2/21 1250		6		008	
MW-31-280	Ag	2/21 1325		6		009	
MW-35-298	Ag	2/21 1400		6		010	
EB-02212017	Ag	2/21 1435		6		Equipment Blank of Hydrocarbon	
IDW-02212017	Ag	2/21 1455		6		Onsite Forge Water 012	
Top Blank	Ag	-		8		Lab Prepared 013	
Relinquished By (Signature): [Signature]	Date: 2/21/17	Time: 1800	Received By (Signature): [Signature]	Date: 2/21/17	Time: 1800	Shipment Method: FedEx Express	Tracking Number(s): 03267 03268

Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)