



VIA ELECTRONIC MAIL

August 2, 2018

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

**Subject: Quarterly Progress Report No. 7
Former Kop-Flex Facility Site, Hanover, Maryland
Administrative Order on Consent, Docket No. RCRA-03-2016-0170 CA**

Dear Erich:

On behalf of EMERSUB 16, LLC, a subsidiary of Emerson Electric Co., WSP USA, Inc. (WSP) is submitting this quarterly progress report describing the remedial and groundwater monitoring activities conducted in the second quarter of calendar year 2018 (April 1 through June 30) as part of the corrective measures implementation at the former Kop-Flex, Inc. facility property located at 7555 and 7565 Harmans Road (Site) in Hanover, Maryland. The Site is identical to the area described as the "Facility" in the Administrative Order on Consent, Docket No. RCRA-03-2016-0170 CA for the Site (Consent Order). The report also describes the activities planned for the third quarter of calendar year 2018 (July 1 through September 30).

This progress report is being submitted to the U.S. Environmental Protection Agency (EPA) pursuant to Section IV.C.3 of the Consent Order. Please note that, in addition to performing the work conducted under the Consent Order, EMERSUB 16 continues to fulfill its remedial obligations under the October 2015 RAP approved by the MDE Voluntary Cleanup Program, and that EMERSUB 16 copies EPA on all submittals required under that program.

If you have any questions, please do not hesitate to contact us at 703-709-6500.

Kind regards,

Robert E. Johnson, PhD.
Senior Technical Manager

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Encl.

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cc: Mr. Stephen Clarke, EMERSUB 16 LLC.
Ms. Richelle Hanson, Maryland Department of the Environment
Mr. Raymond Goins, Trammell Crow Company

CERTIFICATION

I certify that the information contained in or accompanying this quarterly progress report is true, accurate, and complete.

As to those portions of this quarterly progress report for which I cannot personally verify their accuracy, I certify under penalty of law that this quarterly report and all attachments were prepared in accordance with procedures designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature: 

Name: Stephen L. Clarke

Title: President of EMERSUB 16, LLC

Quarterly Progress Report No. 7

Former Kop-Flex Facility Site

April 2018 through June 2018

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
Alternate: Lisa Bryda

1.0 ACTIVITIES COMPLETED DURING APRIL 2018 – JUNE 2018 REPORTING PERIOD

1.1 REPORTING

- Revised versions of the Use Restriction Implementation Plan (URIP) and Environmental Covenant were provided, via hard copy and electronic mail, to the EPA and MDE on May 11, 2018. The revised Environmental Covenant addressed comments provided by MDE on the initial version of this document.
- The EPA and MDE provided edits and comments on the revised Environmental Covenant in early June 2018. Pursuant to MDE's recommendation, an updated electronic version of the Environmental Covenant, which incorporated changes in response to their recent mark-up, was submitted to MDE for their review in late June 2018. MDE provided further comments to this draft on July 12, 2018. The comments mostly pertained to the legibility of documents prepared by ECS and incorporated as Exhibits to the Environmental Covenant. Once these comments are addressed, the Environmental Covenant will be finalized and ready for execution and recording.

1.2 HYDRAULIC CONTAINMENT SYSTEM OPERATION

- The hydraulic containment system operated continuously from April 1, 2018 through June 30, 2018, except for a 3-day period (April 1st through 3rd) to allow for the replacement of in-line valves and instrumentation for automation of the steam regeneration process for the two resin vessels (see below). During the reporting period, a total of approximately 8.47 million gallons of volatile organic compound (VOC)-containing groundwater were recovered and treated by the system, with a combined average withdrawal rate of approximately 65 gallons per minute (GPM) from the shallow and deep recovery wells.
- During system operation, water samples were regularly collected for chemical analysis to monitor and evaluate VOC concentrations in the treatment system influent and effluent. Total concentrations of VOCs (including 1,4-dioxane) for the system influent were generally consistent during the reporting period, with levels ranging from 563 micrograms per liter ($\mu\text{g}/\text{l}$) to 583 $\mu\text{g}/\text{l}$. The influent VOC concentrations continued to exhibit a slight increasing trend, which primarily reflects higher levels of chlorinated ethanes and ethenes compared to 1,4-dioxane in the recovery well discharge (Figure 1). Analysis of the treated water (i.e., effluent) indicated non-detect concentrations of chlorinated VOCs and 1,4-dioxane. As of the end of June 2018, a total of 140 pounds of chlorinated VOCs and 66 pounds of 1,4-dioxane had been recovered from the aquifer system during system operation.
- Samples of the treated effluent were collected for chemical analysis in accordance with State Discharge Permit Number 15-DP-3442 and National Pollutant Discharge Elimination System (NPDES) Permit MD 0069094 (Permit) issued by the MDE. The analytical results indicate compliance with the effluent limitations specified in the Permit.



As mentioned in the previous progress report, quarterly Whole Effluent Toxicity (WET) testing of the treated effluent during the initial year of system, as specified in Special Condition K of the Permit, was completed in mid-March 2018. Evaluation of the test results for all biomonitoring events indicated no adverse toxicity associated with the discharge to Stony Run. Based on this finding, WSP decided that further WET testing was not necessary for the treatment system effluent. This determination was communicated to the MDE Water Management Administration with the submittal of the fourth quarterly biomonitoring results in late April 2018.

- In early April 2018, WSP and Emerging Compound Treatment Technologies (ECT²), the contractor involved in the design and installation of the water treatment system and resin, completed modifications to the equipment to enable automation of the resin regeneration process. Post-installation testing and subsequent system operation indicated the automation upgrade was performing satisfactorily and in accordance with the design specifications. Detailed information concerning the automation of the resin regeneration process will be provided in the Annual Operation, Maintenance and Monitoring (OM&M) Report for the system. The Operation and Maintenance (O&M) Manual for the system was updated following completion of the automation upgrade. A copy of new Revision 3.0 of the O&M Manual, which includes the new system components and process control logic implemented as part of the resin regeneration automation, was submitted to EPA and MDE on May 25, 2018.

1.3 INSTALLATION OF MONITORING WELL ON VERIZON PROPERTY

- WSP completed the installation of a deep monitoring well (MW-46D) on the Verizon property the week of April 23, 2018. As shown in Figure 2, the Verizon facility is located immediately to the north of the Former Kop-Flex Facility and outside the site boundary. The borehole was completed to a total depth of 116 feet below ground surface (BGS). Based on the lithologic and VOC field screening data, the borehole was sealed from 90 feet to 116 feet BGS, and the well installed with a screened interval extending from 80 feet to 90 feet BGS. The elevation of the screened interval is consistent with well MW-23D in the northeastern portion of the site. The boring log and well construction diagram and well development log are included in Enclosure A.

1.4 GROUNDWATER LEVEL MONITORING

- Groundwater level monitoring is conducted to gather data to evaluate the hydraulic response to remedial pumping in both the unconfined and confined portions of the aquifer system. During the reporting period, water level measurements were collected from all monitoring wells and recovery well piezometers the week of May 28, 2018, as part of the semi-annual groundwater monitoring event. The data for this and previous measurement rounds from December 2016 to the present are provided in Table 1.
- Water level contour maps depicting hydraulic head conditions in the shallow, unconfined zone both at the water table and in the lower portion of the unconfined zone are provided in Figures 3 and 4, respectively. Information on the hydraulic head distribution and gradients along the groundwater surface and lower portion of the unconfined zone are discussed separately below.

The water table contour map (Figure 3) indicates the continued presence of a localized depression in the groundwater surface around well MW-38R. The slight mounding effect around wells MW-04 and MW-09 most likely reflects enhanced recharge to the groundwater system associated with the storm water management area in this portion of the site. As with previous measurement events, the most pronounced head changes (i.e., drawdown) occurred within the permeable sand deposits comprising the lower portion of the unconfined zone, with a well-developed cone of depression centered around the shallow recovery wells and extending to the north toward wells MW-39 and MW-43 (Figure 4). Based on the spatial head variations, VOC-containing groundwater in the upper portion of the unconfined zone will tend to migrate downward through the clayey deposits as flow paths move westward toward the recovery wells. This downward seepage would mix with VOCs migrating through the sandy deposits in the lower portion of the unconfined zone and be captured as part of the inflow to the shallow recovery wells. The groundwater capture area for the shallow recovery well system encompasses the width of the downgradient portion of the VOC plume as defined by the sampling data from monitoring wells MW-44, MW-18, and MW-43.



- The potentiometric surface contour map for the confined portion of the Lower Patapsco aquifer generated from the late May 2018 water level data is provided in Figure 5. The head distribution, which reflects a steady state pumping condition, shows the continued existence of an elongated hydraulic sink along the southern property boundary in response to groundwater withdrawals from the deep recovery wells. Evaluation of the head distribution indicates drawdown of the potentiometric surface extending approximately 300 feet south onto the adjoining Williams Scotsman property. Based on the flow paths in response to the hydraulic gradients created during pumping, the groundwater inflow area for the deep recovery wells appears to encompass the inferred width of the VOC plume in the confined portion of the Lower Patapsco aquifer in the southern portion of the Site as defined by the VOC distribution from the baseline sampling data and the observed drawdown in monitoring wells MW-40D and MW-22D.

1.5 GROUNDWATER QUALITY MONITORING

- In accordance with the Groundwater Monitoring Plan, groundwater quality samples were collected from the shallow and deep recovery wells and all monitoring wells, except for shallow well MW-45 on the Williams-Scotsman facility, selected for semi-annual sampling during the week of May 28, 2018. The groundwater sample from MW-45 was collected at a later date (June 28th) because a HydraSleeve passive sampler had not been deployed in the well following the 2017 sampling event. Samples from the shallow and deep monitoring wells were collected using the HydraSleeve sampler. The sampling devices for these wells were deployed to the same depths as previous monitoring events. Following the minimum 2-week equilibration period, samples were obtained by continuously pulling upward on each HydraSleeve until full, and then immediately decanting a representative portion of the collected water into the laboratory-supplied containers. For the recovery wells, the samples were collected directly from an in-line sampling port located at the well-head. All water samples were submitted to Pace Analytical Services laboratory in Huntersville, North Carolina, and analyzed for VOCs using USEPA SW-846 Test Method 8260B and 1,4-dioxane using modified USEPA Method 8260B with selective ion monitoring.

The analytical results for the primary VOCs detected in the monitoring and recovery well samples are summarized in Tables 2 and 3, respectively. Sampling data for the shallow (unconfined) and deep (confined) monitoring wells are provided in Figures 6 and 7, respectively, and results for the recovery well samples are provided in Figure 8. A copy of the certified laboratory analytical reports for the samples is included in Enclosure B.

- For the shallow zone, total concentrations of chlorinated VOCs + 1,4-dioxane in the RW-1S and RW-2S samples were less than 1 milligram per liter, which reflects a decrease compared to previous sampling data (Figure 8). The total VOC + 1,4-dioxane concentration in the RW-3S sample was an order of magnitude lower, with no compounds detected above the Groundwater Cleanup Standards. For monitoring wells in the eastern portion of the site, the chlorinated VOC and 1,4-dioxane concentration for the May 2018 samples are generally similar to levels detected in the November 2017 samples. No VOCs or 1,4-dioxane were detected in the sample from the shallow well (MW-45) on the Williams-Scotsman property (Figure 6). Data for monitoring wells on the western portion of the site indicate generally similar concentrations for wells screened in the upper clayey deposits, although 1,4-dioxane decreased in sample from MW-42. Reductions in both VOC and 1,4-dioxane concentrations are apparent in samples collected from wells situated near the northern (MW-43) and southern (MW-44) limits of the shallow zone groundwater plume. No site-related contaminants were detected at levels above the cleanup criteria in samples from wells located west of the access road.
- In the deep recovery well samples, 1,1-DCE and 1,4-dioxane remain at concentrations above the Groundwater Cleanup Standards (Table 3). The sample results indicate higher levels of chlorinated VOCs degradation products (1,1-dichloroethene and 1,1-dichloroethane) in the discharge from well RW-1D in the southwestern portion of the site compared to RW-2D (Figure 8). The 1,4-dioxane concentrations are generally similar for the May 2018 deep recovery well samples. Overall, the concentrations of the primary VOCs are lower in the May 2018 samples from the monitoring wells in the southern portion of the Site, including MW-24D on the Williams-Scotsman property, compared to the levels detected in the November 2017 event (Figure 7). This includes samples collected from wells located near the eastern (MW-22D) and western (MW-40D) boundaries of the VOC plume in the confined hydrogeologic unit. The only exception to this trend is represented by slight concentration increases in the sample from well MW-21D, which is located near RW-1D (Figure 7).



The groundwater sample collected from new deep well MW-46D on the Verizon property contained low concentrations of chlorinated VOCs and 1,4-dioxane. Overall, the detected levels of site-related constituents are lower when compared to the data from onsite well MW-23D, although 1,1-DCE and 1,4-dioxane are present at concentrations slightly above the groundwater cleanup standards for the site.

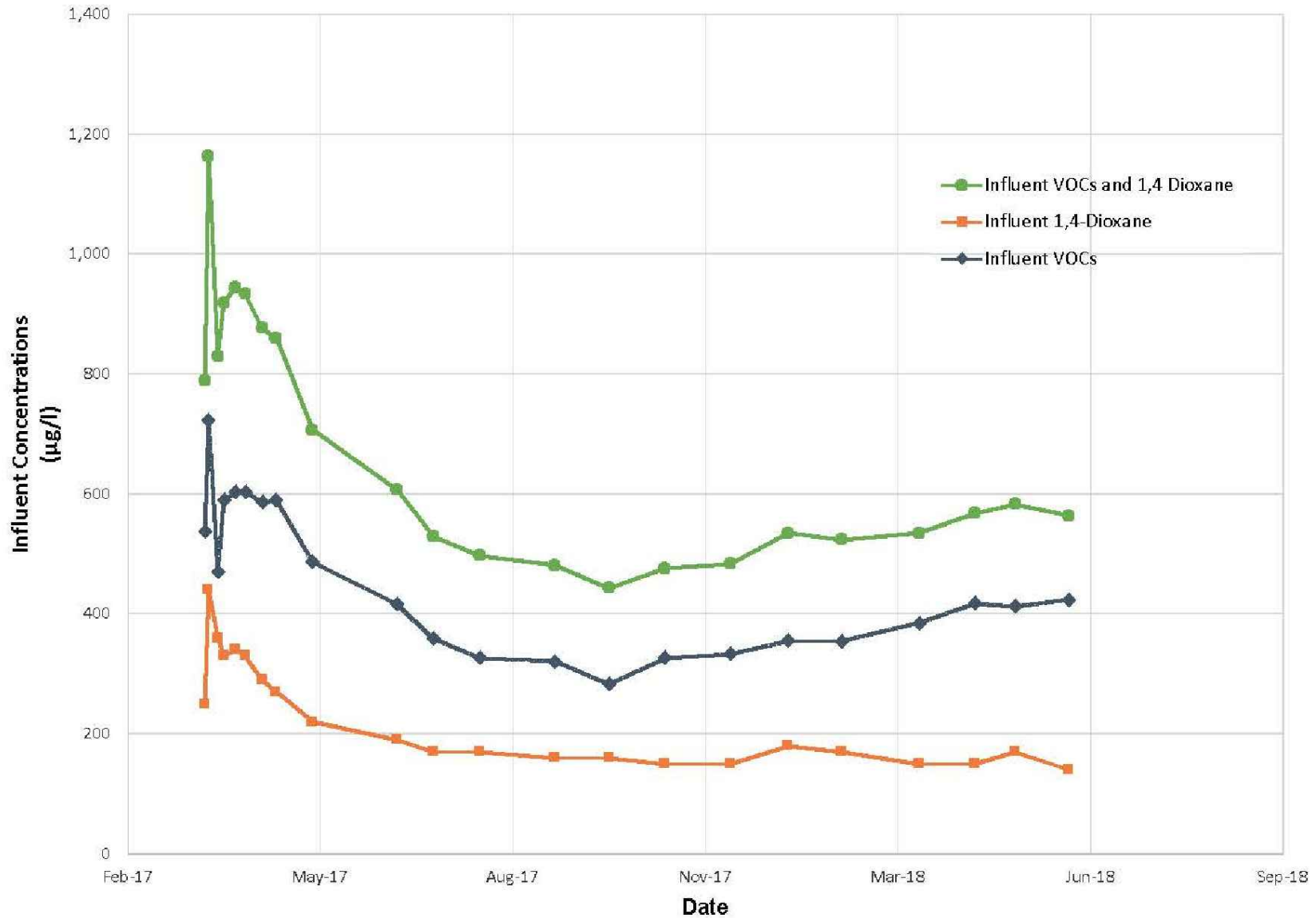
2.0 PLANNED ONSITE ACTIVITIES FOR THE REMAINDER OF 2018

- Continue with the operation and maintenance activities for the hydraulic containment system.
- Conduct the necessary effluent monitoring and reporting activities for the system discharge pursuant to the Permit.
- Collect water level measurements, as deemed necessary, to continue to assess the aquifer response to remedial pumping and capture of the VOC plumes in the unconfined and confined portions of the aquifer system.
- Collect other data for inclusion in the Annual OM&M Report, as required under Section 14.2 of the 2015 RAP.

3.0 KEY PERSONNEL/FACILITY CHANGES

There were no changes to key project personnel during the reporting period.

FIGURES



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Figure 1
VOC AND 1,4-DIOXANE CONCENTRATIONS
IN SYSTEM INFLUENT

FORMER KOP-FLEX FACILITY
HANOVER, MARYLAND

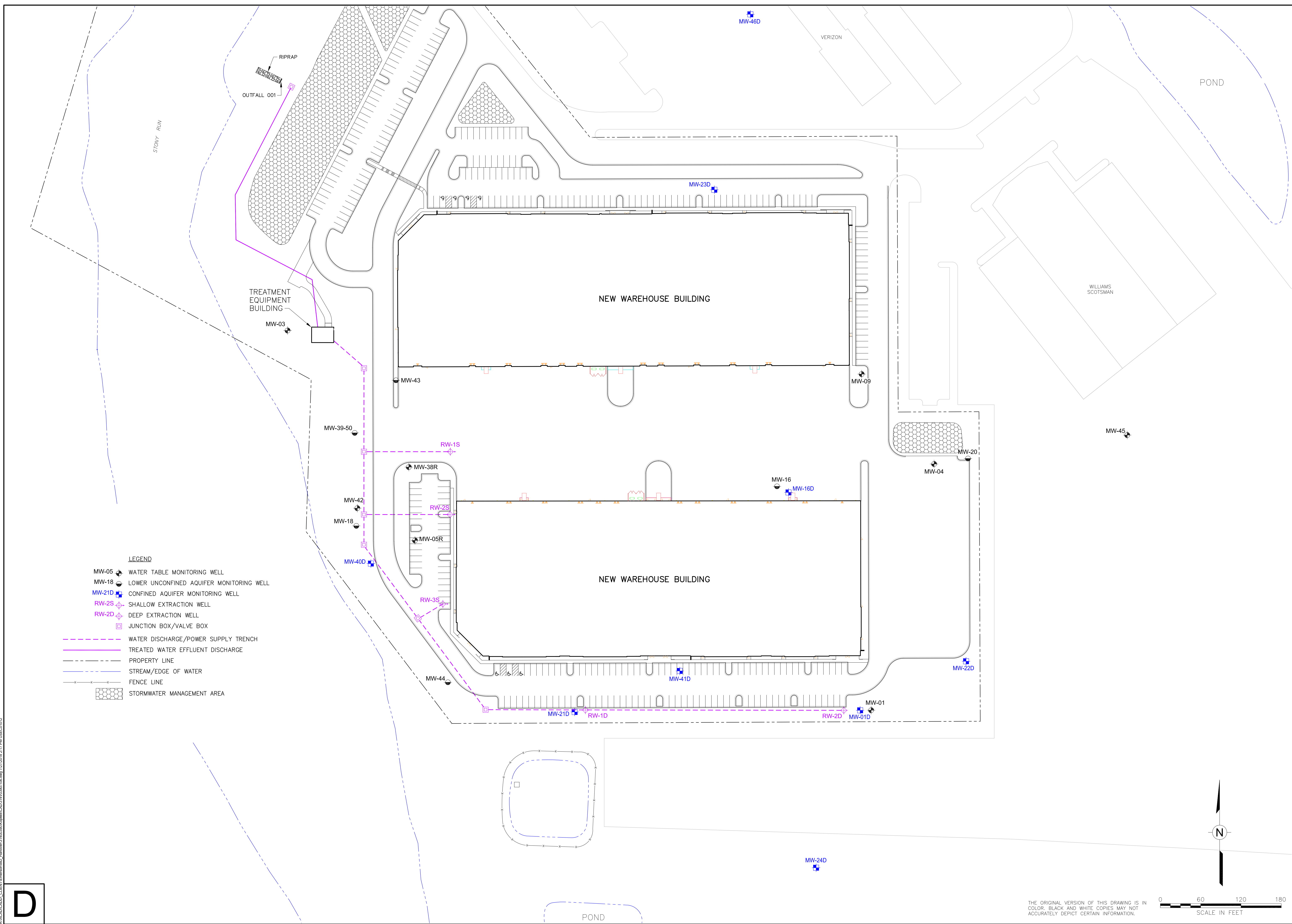
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EMERSUB 16 LLC
ST. LOUIS, MISSOURI

Drawn By: EGC

Checked:

Approved: *EGC* 7/23/2018

DWG Name: 314V0390-093



LEGEND

- MW-05 WATER TABLE MONITORING WELL
- MW-18 LOWER UNCONFINED AQUIFER MONITORING WELL
- MW-21D CONFINED AQUIFER MONITORING WELL
- RW-2S SHALLOW EXTRACTION WELL
- RW-2D DEEP EXTRACTION WELL
- JUNCTION BOX/VALVE BOX
- WATER DISCHARGE/POWER SUPPLY TRENCH
- TREATED WATER EFFLUENT DISCHARGE
- PROPERTY LINE
- STREAM/EDGE OF WATER
- FENCE LINE
- STORMWATER MANAGEMENT AREA

REV	REVISIONS	DESCRIPTION

SEAL

DATE

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HYDRAULIC CONTAINMENT SYSTEMS AND MONITORING WELL LOCATIONS

FORMER KOP-FLEX FACILITY SITE

HANOVER, MARYLAND

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EMERSON
ST. LOUIS, MISSOURI



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FIGURE 2

Drawing Number
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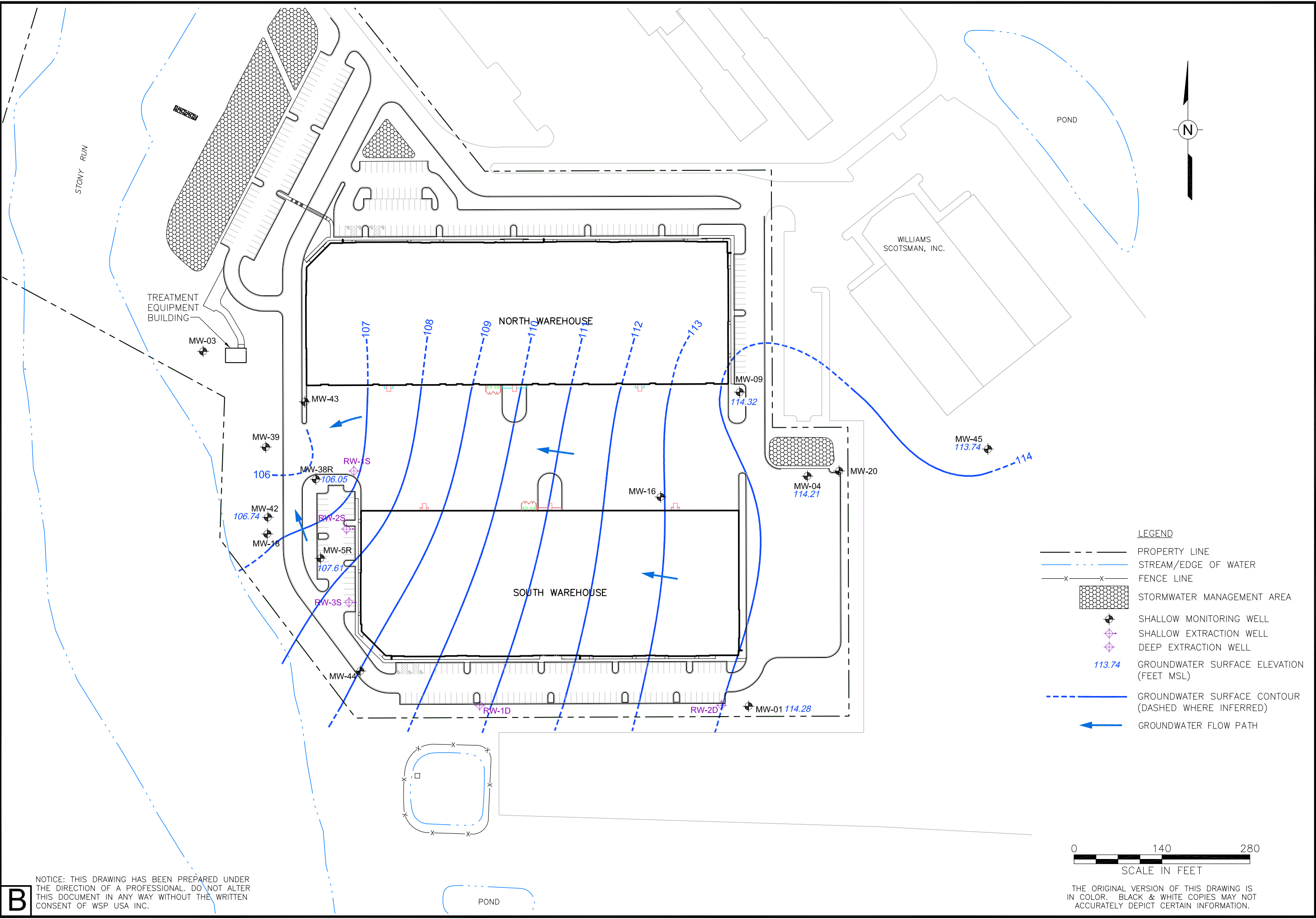
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SCALE IN FEET

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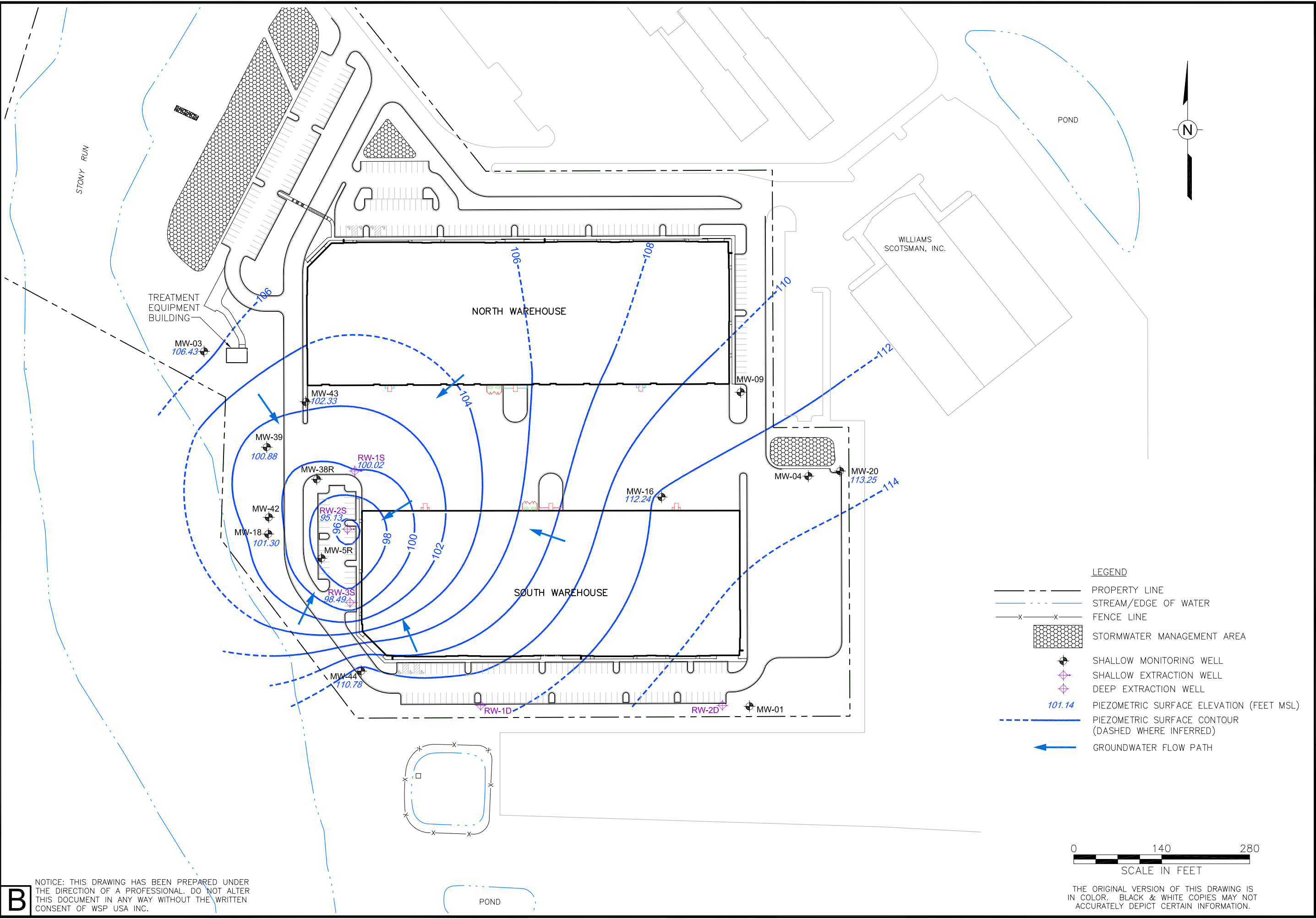
FIGURE 3
 WATER TABLE CONTOUR MAP
 (MAY 2018)

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 SCALE IN FEET

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- LEGEND**
- PROPERTY LINE
 - STREAM/EDGE OF WATER
 - x-x- FENCE LINE
 - [Hatched Box] STORMWATER MANAGEMENT AREA
 - ⊕ SHALLOW MONITORING WELL
 - ◇ SHALLOW EXTRACTION WELL
 - ◇ DEEP EXTRACTION WELL
 - 101.14 PIEZOMETRIC SURFACE ELEVATION (FEET MSL)
 - - - - - PIEZOMETRIC SURFACE CONTOUR (DASHED WHERE INFERRED)
 - ← GROUNDWATER FLOW PATH



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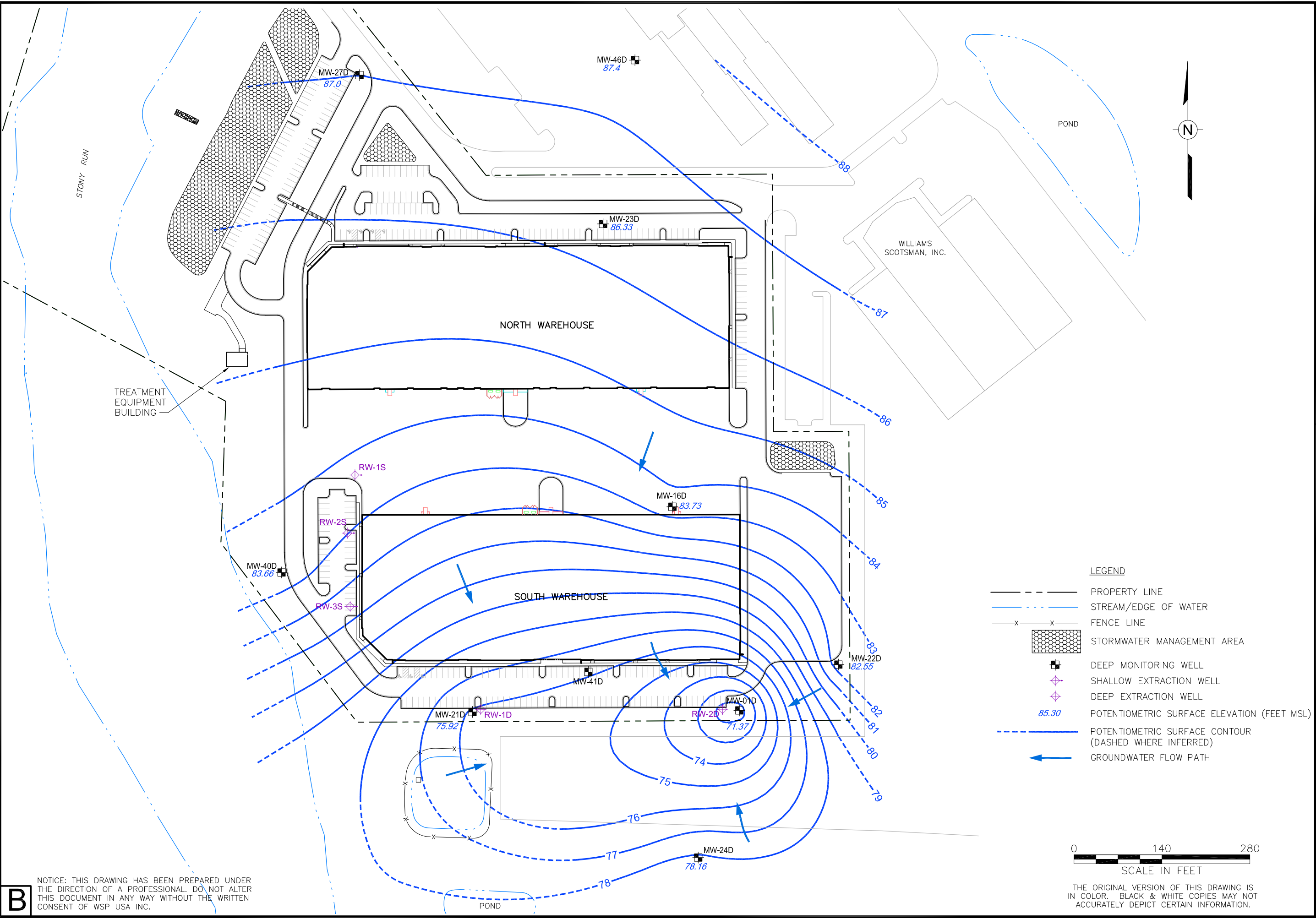
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FIGURE 4
 PIEZOMETRIC SURFACE CONTOUR MAP
 FOR LOWER PORTION OF UNCONFINED ZONE
 (MAY 2018)

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FIGURE 5
 POTENTIOMETRIC SURFACE CONTOUR MAP
 FOR CONFINED ZONE OF LOWER
 PATAPSCO AQUIFER (MAY 2018)

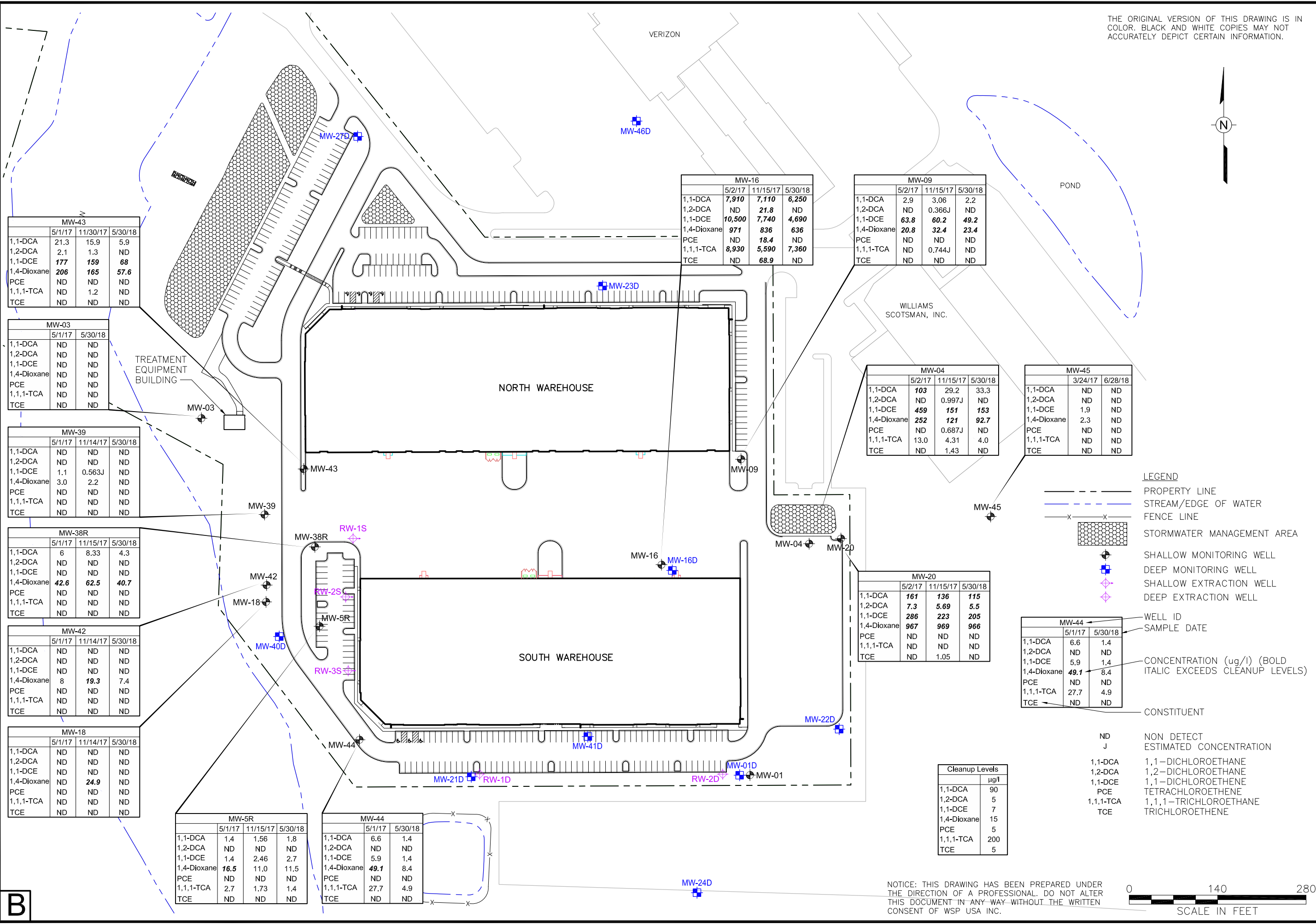
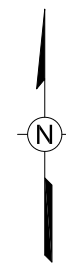
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FIGURE 6
 SAMPLING RESULTS FOR MONITORING WELLS
 SCREENED IN THE UNCONFINED ZONE
 (2017-2018)

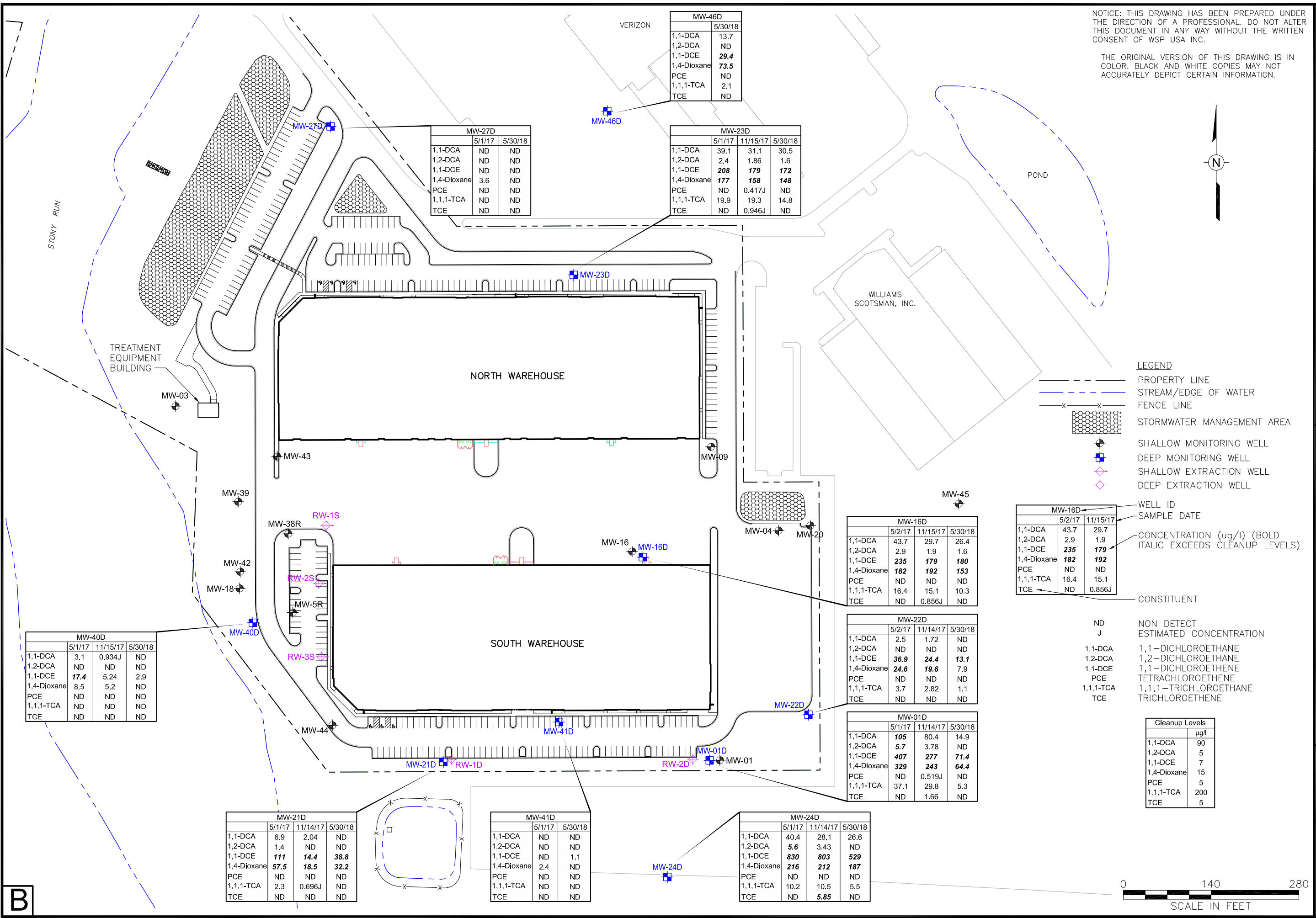
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FIGURE 7
 SAMPLING RESULTS FOR MONITORING WELLS
 SCREENED IN THE CONFINED PORTION OF THE
 LOWER PATAPSCO AQUIFER (2017-2018)

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B

MW-46D	
Constituent	5/30/18
1,1-DCA	13.7
1,2-DCA	ND
1,1-DCE	29.4
1,4-Dioxane	73.5
PCE	ND
1,1,1-TCA	2.1
TCE	ND

MW-27D		
Constituent	5/1/17	5/30/18
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	ND
1,4-Dioxane	3.6	ND
PCE	ND	ND
1,1,1-TCA	ND	ND
TCE	ND	ND

MW-23D			
Constituent	5/1/17	11/15/17	5/30/18
1,1-DCA	39.1	31.1	30.5
1,2-DCA	2.4	1.86	1.6
1,1-DCE	208	179	172
1,4-Dioxane	177	158	148
PCE	ND	0.417J	ND
1,1,1-TCA	19.9	19.3	14.8
TCE	ND	0.946J	ND

MW-40D			
Constituent	5/1/17	11/15/17	5/30/18
1,1-DCA	3.1	0.934J	ND
1,2-DCA	ND	ND	ND
1,1-DCE	17.4	5.24	2.9
1,4-Dioxane	8.5	5.2	ND
PCE	ND	ND	ND
1,1,1-TCA	ND	ND	ND
TCE	ND	ND	ND

MW-21D			
Constituent	5/1/17	11/14/17	5/30/18
1,1-DCA	6.9	2.04	ND
1,2-DCA	1.4	ND	ND
1,1-DCE	111	14.4	38.8
1,4-Dioxane	57.5	18.5	32.2
PCE	ND	ND	ND
1,1,1-TCA	2.3	0.696J	ND
TCE	ND	ND	ND

MW-41D		
Constituent	5/1/17	5/30/18
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	1.1
1,4-Dioxane	2.4	ND
PCE	ND	ND
1,1,1-TCA	ND	ND
TCE	ND	ND

MW-24D			
Constituent	5/1/17	11/14/17	5/30/18
1,1-DCA	40.4	28.1	26.6
1,2-DCA	5.6	3.43	ND
1,1-DCE	830	803	529
1,4-Dioxane	216	212	187
PCE	ND	ND	ND
1,1,1-TCA	10.2	10.5	5.5
TCE	ND	5.85	ND

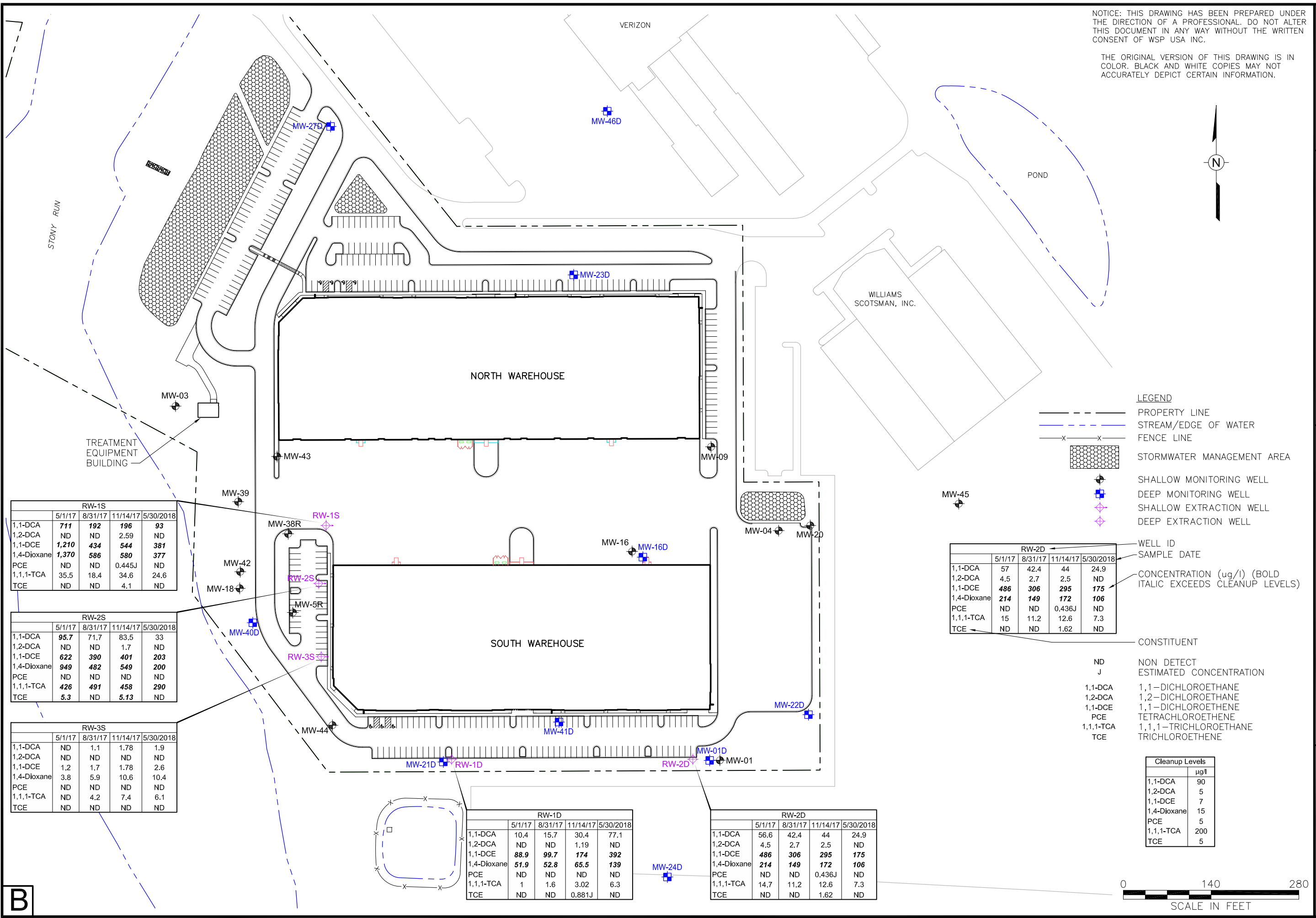
MW-16D			
Constituent	5/2/17	11/15/17	5/30/18
1,1-DCA	43.7	29.7	26.4
1,2-DCA	2.9	1.9	1.6
1,1-DCE	235	179	180
1,4-Dioxane	182	192	153
PCE	ND	ND	ND
1,1,1-TCA	16.4	15.1	10.3
TCE	ND	0.856J	ND

MW-22D			
Constituent	5/2/17	11/14/17	5/30/18
1,1-DCA	2.5	1.72	ND
1,2-DCA	ND	ND	ND
1,1-DCE	36.9	24.4	13.1
1,4-Dioxane	24.6	19.6	7.9
PCE	ND	ND	ND
1,1,1-TCA	3.7	2.82	1.1
TCE	ND	ND	ND

MW-01D			
Constituent	5/1/17	11/14/17	5/30/18
1,1-DCA	105	80.4	14.9
1,2-DCA	5.7	3.78	ND
1,1-DCE	407	277	71.4
1,4-Dioxane	329	243	64.4
PCE	ND	0.519J	ND
1,1,1-TCA	37.1	29.8	5.3
TCE	ND	1.66	ND

MW-16D		
Constituent	5/2/17	11/15/17
1,1-DCA	43.7	29.7
1,2-DCA	2.9	1.9
1,1-DCE	235	179
1,4-Dioxane	182	192
PCE	ND	ND
1,1,1-TCA	16.4	15.1
TCE	ND	0.856J

R:\ACAD\CADD\CCLIENT\Emerson\MD_Hanover\31400390-Kopflex\CAD\314V0390-107.dwg 7/27/2018 2:27 PM USEC01012



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

Drawn By: EGC

Checked: MJK 7/24/2018

Approved: RBY

DWG Name: 314V0390-107

FORMER KOP-FLEX FACILITY SITE

HANOVER, MARYLAND

PREPARED FOR

EMERSUB 16 LLC

ST. LOUIS, MISSOURI

FIGURE 8

GROUNDWATER RECOVERY WELL RESULTS (2017-2018)

WSP USA Inc.

13530 DULLES TECHNOLOGY DR

SUITE 300

HERNDON, VA 20171

TEL: +1 703.703.6500

TABLES

Table 2
May 2018 Monitoring Well Sampling Results
Former Kop-Flex Facility
Hanover, Maryland (a)

Parameters	Groundwater Cleanup Standards (µg/L) (b)	Shallow Wells												
		Well ID: MW-03	MW-04	MW-5R	MW-09	MW-16	MW-18	MW-20	MW-38R	MW-39	MW-42	MW-43	MW-44	MW-45
Chloroethane	3.6	1 U	1 U	1 U	1 U	249	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	80	1 U	1 U	1 U	1 U	84	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	90	1 U	33.3	1.8	2.2	6,250	1 U	115	4.3	1 U	1 U	5.9	1.4	1 U
1,2-Dichloroethane	5	1 U	1 U	1 U	1 U	50 U	1 U	5.5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	1 U	153	2.7	49.2	4,690	1 U	205	1 U	1 U	1 U	68	1.4	1 U
1,4-Dioxane	15 (c)	2 U	92.7	11.5	23.4	636	2 U	966	40.7	2 U	7.4	57.6	8.4	2 U
Methyl tert-butyl ether	20	1 U	1 U	1 U	1 U	50 U	1 U	2 U	1 U	1 U	1 U	4.7	1 U	1 U
1,1,1-Trichloroethane	200	1 U	4	1.4	0.744 J	7,360	1 U	2 U	1 U	1 U	1 U	1 U	4.9	1 U

a/ U = not detected above the method detection limit; NS = not sampled

Bolded values indicate an exceedence of the Groundwater Quality Standards

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

b/ Source:

[http://www.mde.maryland.gov/assets/document/Final%20Update%20No%20.1%20dated%205-20-08\(1\).pdf](http://www.mde.maryland.gov/assets/document/Final%20Update%20No%20.1%20dated%205-20-08(1).pdf)

c/ Numeric cleanup standards from WSP's October 2, 2015, Response Action Plan, Revision 2.

Table 2

May 2018 Monitoring Well Sampling Results
Former Kop-Flex Facility
Hanover, Maryland (a)

Well ID:	Groundwater Cleanup Standards (µg/L) (b)	Deep Wells										
		MW-1D	MW-16D	MW-16D DUP	MW-21D	MW-22D	MW-23D	MW-24D	MW-27D	MW-40D	MW-41D	MW-46D
Chloroethane	3.6	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U
Chloroform	80	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	90	14.9	26.4	27.1	1	1 U	30.5	26.6	1 U	1 U	1 U	13.7
1,2-Dichloroethane	5	1 U	1.6	1.8	1 U	1 U	1.6	4 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	71.4	180	188	38.8	13.1	172	529	1 U	2.9	1.1	29.4
1,4-Dioxane	15 (c)	64	153	156	32.2	7.9	148	187	2 U	2 U	2 U	73.5
Methyl tert-butyl ether	20	1 U	1 U	3.4	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	5.3	10.3	11.5	1 U	1.1	14.8	5.5	1 U	1 U	1 U	1.2

a/ U = not detected above the method detection limit; NS = not sampled

Bolded values indicate an exceedence of the Groundwater Quality Standard

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

b/ Source:

[http://www.mde.maryland.gov/assets/document/Final%20Update%20No%20.1%20dated%205-20-08\(1\).pdf](http://www.mde.maryland.gov/assets/document/Final%20Update%20No%20.1%20dated%205-20-08(1).pdf)

c/ Numeric cleanup standards from WSP's October 2, 2015, Response Action Plan, Revision 2.

Table 3

May 2018 Recovery Well Sampling Results
Former Kop-Flex Facility
Hanover, Maryland (a)

Parameters	Groundwater Cleanup Standards (µg/L) (b)	Shallow Wells			Deep Wells	
		Well ID: RW-1S	RW-2S	RW-3S	RW-1D	RW-2D
VOCs						
Chloroethane	3.6	23.5	2 U	1 U	8.2	2 U
1,1-Dichloroethane	90	93	33	1.9	77.1	24.9
1,1-Dichloroethene	7	381	203	2.6	392	175
1,4-Dioxane	15	377	200	10.4	139	106
1,1,1-Trichloroethane	200	24.6	290	6.1	6.3	7.3

a/ U = not detected above the method detection limit

Bolded values indicate an exceedence of the Groundwater Quality Standards

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

b/ Numeric cleanup standards from WSP's October 2, 2015, Response Action Plan, Revision 2.

ENCLOSURE A – MW-46D BORING AND DEVELOPMENT LOGS

**Well Development Log
MW-46D
Former Kop-Flex Facility
Hanover, Maryland**

Development Method = Submersible Pump

Initial Depth to Water = 37.40 ft TOC

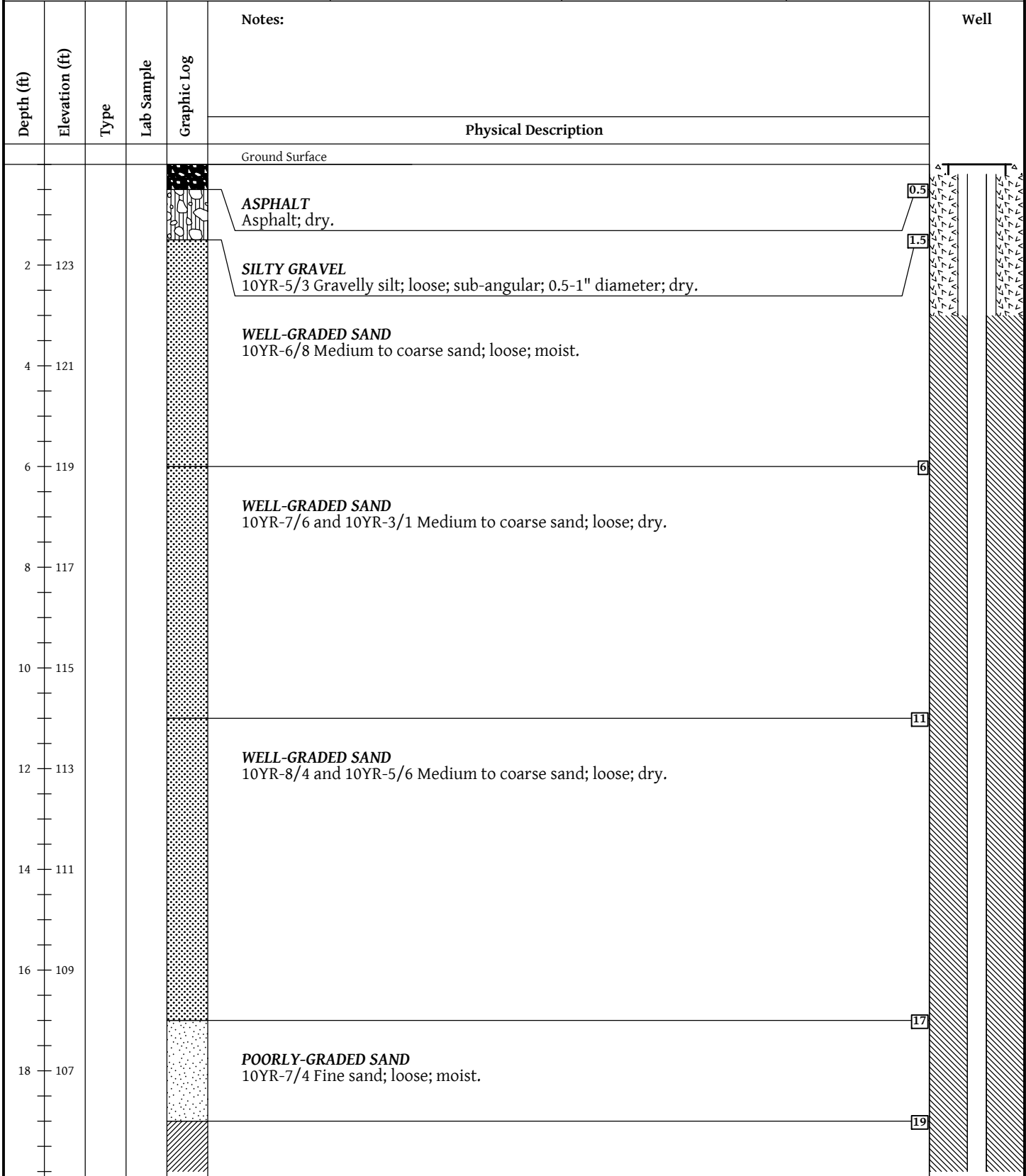
Total Well Depth = 90 ft TOC

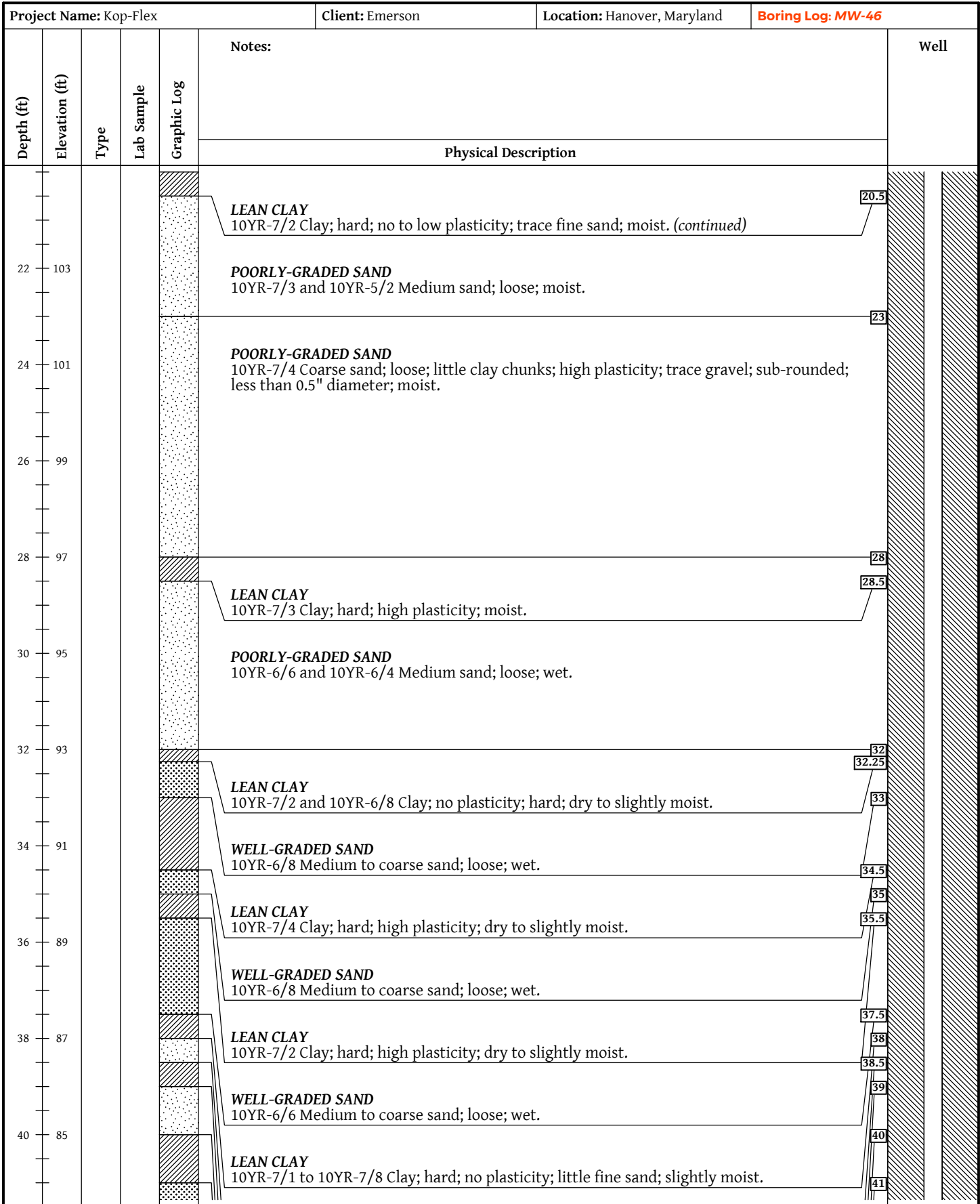
Total Volume Purged = 100 gal

Date	Reading Time	Volume Purged (Gallon)	Temperature (C)	pH	Specific Conductance (S/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
April 24, 2018	0800		19.42	9.08	0.442	>1,000	1.87	-98
	0805		19.94	6.63	0.405	>1,000	1.51	-78
	0810		19.85	6.21	0.406	>1,000	1.49	-63
	0815		19.83	5.96	0.384	>1,000	1.45	-48
	0820		19.82	5.84	0.379	749	1.45	-41
	0825		19.81	5.84	0.369	501	1.46	-35
	0830		19.81	5.63	0.363	347	1.48	-28
	0835		19.80	5.60	0.356	256	1.42	-25
	0840		20.20	6.32	0.347	>1,000	1.25	-89
	0845		19.71	6.02	0.384	>1,000	1.57	-44
	0850		19.81	6.02	0.374	797	1.57	-44
	0855		19.81	5.99	0.373	427	1.60	-42
	0900		19.84	5.97	0.366	294	1.59	-40
	0905		19.78	5.93	0.367	173	1.43	-36
	0910		19.76	5.90	0.368	140	1.60	-33
	0915		19.65	5.89	0.366	110	1.62	-27
	0920		~100	19.63	5.87	0.366	92	1.60



Project Name: Kop-Flex	Client: Emerson	Location: Hanover, Maryland	Boring Log: MW-46
Drilled By: Cascade Drilling/Josh Sigler	Drill Start Date: 4/23/2018	Drill End Date: 4/26/2018	Drill Method: Rotasonic
Logged By: Molly Long	Total Depth (ft): 116	Bore Diameter (in): 6	Ground Surface (ft): 125.00







Project Name: Kop-Flex		Client: Emerson		Location: Hanover, Maryland		Boring Log: MW-46	
Depth (ft)	Elevation (ft)	Type	Lab Sample	Graphic Log	Notes:	Well	
					Physical Description		
42	83				POORLY-GRADED SAND 10YR-7/8 Medium sand; loose; wet.	41.5 41.75	
					LEAN CLAY 10YR-7/1 to 10YR-7/8 Clay; hard; no plasticity; trace to little fine sand; moist.	42.75	
44	81				POORLY-GRADED SAND 10YR-6/6 Medium sand; loose; wet.		
46	79				SANDY LEAN CLAY 10YR-7/2 Clay; no plasticity; few fine sand; moist.		
					WELL-GRADED SAND 10YR-7/6 Medium to coarse sand; loose; wet. <i>(continued)</i>	47	
48	77				POORLY-GRADED GRAVEL WITH SAND (GP) 10YR-7/1 Gravel, 0.5-1.5" diameter; sub-rounded; loose; few medium sand; wet.	48	
					LEAN CLAY WITH SAND (CL) 10YR-7/3 Clay; low plasticity; hard; moist.	49	
50	75				POORLY-GRADED SAND 10YR-7/4 Medium sand; loose; wet.	50 50.5	
					LEAN CLAY 10YR-7/1 to 10YR-6/6 Clay; medium to high plasticity; hard; moist.	51	
52	73				WELL-GRADED SAND 10YR-7/3 Fine sand; clay chunks; medium to high plasticity; hard; loose; wet.		
					LEAN CLAY 10YR-7/1 to 10YR-6/6 Clay; high plasticity; hard; moist.		
54	71				POORLY-GRADED SAND 10YR-6/2 Fine sand; loose; wet.		
					LEAN CLAY 10YR-7/1 Clay; medium plasticity; hard; slightly moist.	58	
56	69				POORLY-GRADED SAND 10YR-7/2 Medium sand; loose; wet.	58.5	
					LEAN CLAY 10YR-8/2 to 10YR-6/8 Clay; high plasticity; hard; slightly moist.		
58	67				POORLY-GRADED SAND 10YR-7/2 to 10YR-7/6 Medium sand; loose; wet.	61	
60	65						
62	63						



Project Name: Kop-Flex			Client: Emerson		Location: Hanover, Maryland		Boring Log: MW-46	
Depth (ft)	Elevation (ft)	Type	Lab Sample	Graphic Log	Notes:	Well		
					Physical Description			
64	61				<p>LEAN CLAY WITH GRAVEL (CL) 10YR-7/2 Clay and gravel; high plasticity; medium hard; sub-rounded; 0.5-1" diameter; moist. (continued)</p>	63		
					<p>LEAN CLAY 10YR-7/1 Clay; high plasticity; hard; slightly moist.</p>	63.25		
66	59				<p>POORLY-GRADED SAND 10YR-7/6 Medium sand; loose; wet.</p>	63.5		
					<p>LEAN CLAY 10YR-7/1 Clay; high plasticity; hard; slightly moist.</p>	64		
68	57				<p>LEAN CLAY WITH GRAVEL (CL) 10YR-7/2 Clay and gravel; high plasticity; medium hard; sub-rounded; 0.5-1" diameter; moist.</p>	64.25		
70	55				<p>LEAN CLAY 10YR-7/3 Clay; no plasticity; hard; brittle; dry.</p>	66		
72	53				<p>POORLY-GRADED SAND 10YR-8/3 to 10YR-6/8 Fine sand; loose; wet.</p>	67		
74	51				<p>POORLY-GRADED SAND WITH GRAVEL (SP) 10YR-8/3 to 10YR-7/6 Medium sand; loose; some gravel; 0.5-2" diameter; sub-rounded; trace clay; clay chunks from 81-82'; wet.</p>			
76	49							
78	47							
80	45							
82	43							



Project Name: Kop-Flex			Client: Emerson		Location: Hanover, Maryland		Boring Log: MW-46	
Depth (ft)	Elevation (ft)	Type	Lab Sample	Graphic Log	Notes:		Well	
					Physical Description			
86	39				POORLY-GRADED SAND WITH GRAVEL (SP) 10YR-8/3 to 10YR-7/6 Medium sand; loose; some gravel; 0.5-2" diameter; sub-rounded; trace clay; clay chunks from 81-82'; wet. (continued)			
88	37				POORLY-GRADED SAND 10YR-7/3 to 10YR-6/8 Medium sand; loose; trace gravel; sub-rounded; less than 1" diameter; wet.			
90	35						91	
92	33				LEAN CLAY 10YR-7/2 and 10YR-6/8 Clay; no plasticity; hard; brittle; dry.			
94	31							
96	29							
98	27							
100	25				POORLY-GRADED SAND 10YR-8/3 to 10YR-7/8 Fine sand; loose; trace clay; hard; mosit.		100	
102	23							
104	21				WELL-GRADED SAND 10YR-6/8 Fine to medium sand; loose; wet.		104	



Project Name: Kop-Flex		Client: Emerson		Location: Hanover, Maryland		Boring Log: MW-46	
Depth (ft)	Elevation (ft)	Type	Lab Sample	Graphic Log	Notes:	Well	
					Physical Description		
106	19				<p style="text-align: right;">106</p> <p>WELL-GRADED SAND 10YR-6/6 to 10YR-7/4 Fine to coarse sand; loose; trace clay chunks; hard; no to low plasticity; wet.</p>		
108	17						
110	15						
112	13						
114	11						
116	9				<p>Bottom of Boring at 116 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.</p>		
118	7						
120	5						
122	3						
124	1						
126	-1						

ENCLOSURE B – LABORATORY ANALYTICAL REPORTS, SEMI-ANNUAL
GROUNDWATER MONITORING EVENT (MAY-JUNE 2018)

June 11, 2018

Eric Johnson
WSP USA
13530 Dulles Technology Drive
Suite 300
Herndon, VA 20171

RE: Project: Kop FLex
Pace Project No.: 92386883

Dear Eric Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 01, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Kop FLeX

Pace Project No.: 92386883

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Kop FLEx
Pace Project No.: 92386883

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92386883001	Trip Blank	Water	05/30/18 00:00	06/01/18 11:07
92386883002	MW-46	Water	05/30/18 15:50	06/01/18 11:07
92386883003	DUP053018	Water	05/30/18 09:00	06/01/18 11:07
92386883004	MW-16D	Water	05/30/18 14:50	06/01/18 11:07
92386883005	MW-16	Water	05/30/18 14:35	06/01/18 11:07
92386883006	RW-1S	Water	05/30/18 14:25	06/01/18 11:07
92386883007	MW-24D	Water	05/30/18 13:50	06/01/18 11:07
92386883008	MW-03	Water	05/30/18 13:30	06/01/18 11:07
92386883009	MW-20	Water	05/30/18 13:15	06/01/18 11:07
92386883010	MW-04	Water	05/30/18 13:05	06/01/18 11:07
92386883011	MW-09	Water	05/30/18 12:55	06/01/18 11:07
92386883012	MW-23D	Water	05/30/18 12:40	06/01/18 11:07
92386883013	MW-22D	Water	05/30/18 11:35	06/01/18 11:07
92386883014	MW-01D	Water	05/30/18 11:15	06/01/18 11:07
92386883015	RW-2D	Water	05/30/18 11:25	06/01/18 11:07
92386883016	MW-27D	Water	05/30/18 08:40	06/01/18 11:07
92386883017	MW-41D	Water	05/30/18 11:05	06/01/18 11:07
92386883018	RW-1D	Water	05/30/18 10:55	06/01/18 11:07
92386883019	MW-21D	Water	05/30/18 10:45	06/01/18 11:07
92386883020	MW-44	Water	05/30/18 10:35	06/01/18 11:07
92386883021	RW-2S	Water	05/30/18 10:25	06/01/18 11:07
92386883022	RW-3S	Water	05/30/18 10:15	06/01/18 11:07
92386883023	MW-38R	Water	05/30/18 10:05	06/01/18 11:07
92386883024	MW-05R	Water	05/30/18 09:55	06/01/18 11:07
92386883025	MW-40D	Water	05/30/18 09:40	06/01/18 11:07
92386883026	MW-18	Water	05/30/18 09:30	06/01/18 11:07
92386883027	MW-42	Water	05/30/18 09:20	06/01/18 11:07
92386883028	MW-39	Water	05/30/18 09:10	06/01/18 11:07
92386883029	MW-43	Water	05/30/18 08:55	06/01/18 11:07

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Kop FLex
Pace Project No.: 92386883

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92386883001	Trip Blank	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883002	MW-46	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883003	DUP053018	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883004	MW-16D	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883005	MW-16	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883006	RW-1S	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883007	MW-24D	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883008	MW-03	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883009	MW-20	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883010	MW-04	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883011	MW-09	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883012	MW-23D	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883013	MW-22D	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883014	MW-01D	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883015	RW-2D	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883016	MW-27D	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883017	MW-41D	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883018	RW-1D	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92386883019	MW-21D	EPA 8260	GAW	63	PASI-C

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Kop FLEx
Pace Project No.: 92386883

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92386883020	MW-44	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8260	GAW	63	PASI-C
92386883021	RW-2S	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8260	GAW	63	PASI-C
92386883022	RW-3S	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8260	GAW	63	PASI-C
92386883023	MW-38R	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8260	GAW	63	PASI-C
92386883024	MW-05R	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8260	GAW	63	PASI-C
92386883025	MW-40D	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8260	GAW	63	PASI-C
92386883026	MW-18	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8260	GAW	63	PASI-C
92386883027	MW-42	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8260	GAW	63	PASI-C
92386883028	MW-39	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8260	GAW	63	PASI-C
92386883029	MW-43	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8260	GAW	63	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: Trip Blank		Lab ID: 92386883001	Collected: 05/30/18 00:00	Received: 06/01/18 11:07	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		06/05/18 07:49	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/18 07:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/18 07:49	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/18 07:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/18 07:49	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/18 07:49	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/18 07:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/18 07:49	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/18 07:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/18 07:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/18 07:49	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/18 07:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/18 07:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/18 07:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/18 07:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/18 07:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/18 07:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/18 07:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/18 07:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 07:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 07:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 07:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/18 07:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/05/18 07:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/18 07:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/05/18 07:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/18 07:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/18 07:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/18 07:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/18 07:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/18 07:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/18 07:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/18 07:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/18 07:49	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/18 07:49	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/18 07:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/18 07:49	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/18 07:49	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/18 07:49	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/18 07:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/18 07:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/18 07:49	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/18 07:49	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/18 07:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/18 07:49	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/18 07:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/18 07:49	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: Trip Blank		Lab ID: 92386883001	Collected: 05/30/18 00:00	Received: 06/01/18 11:07	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		06/05/18 07:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/18 07:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/18 07:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/18 07:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/18 07:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/18 07:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/18 07:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/18 07:49	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/18 07:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/18 07:49	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/05/18 07:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/18 07:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/18 07:49	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		06/05/18 07:49	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		06/05/18 07:49	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		06/05/18 07:49	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/04/18 17:25	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	114	%	50-150	1		06/04/18 17:25	17060-07-0	
Toluene-d8 (S)	112	%	50-150	1		06/04/18 17:25	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-46	Lab ID: 92386883002	Collected: 05/30/18 15:50	Received: 06/01/18 11:07	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		06/03/18 02:46	67-64-1	
Benzene	ND	ug/L	1.0	1		06/03/18 02:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/03/18 02:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/03/18 02:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/03/18 02:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/03/18 02:46	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/03/18 02:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/03/18 02:46	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/03/18 02:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/03/18 02:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/03/18 02:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/03/18 02:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/03/18 02:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/03/18 02:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/03/18 02:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/03/18 02:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/03/18 02:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/03/18 02:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/03/18 02:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/03/18 02:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/03/18 02:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/03/18 02:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/03/18 02:46	75-71-8	
1,1-Dichloroethane	13.7	ug/L	1.0	1		06/03/18 02:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/03/18 02:46	107-06-2	
1,1-Dichloroethene	29.4	ug/L	1.0	1		06/03/18 02:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/03/18 02:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/03/18 02:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/03/18 02:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/03/18 02:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/03/18 02:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/03/18 02:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/03/18 02:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/03/18 02:46	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/03/18 02:46	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/03/18 02:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/03/18 02:46	87-68-3	L2
2-Hexanone	ND	ug/L	5.0	1		06/03/18 02:46	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/03/18 02:46	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/03/18 02:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/03/18 02:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/03/18 02:46	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/03/18 02:46	91-20-3	
Styrene	ND	ug/L	1.0	1		06/03/18 02:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/03/18 02:46	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/03/18 02:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/03/18 02:46	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-46	Lab ID: 92386883002	Collected: 05/30/18 15:50	Received: 06/01/18 11:07	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		06/03/18 02:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/03/18 02:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/03/18 02:46	120-82-1	
1,1,1-Trichloroethane	1.2	ug/L	1.0	1		06/03/18 02:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/03/18 02:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/03/18 02:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/03/18 02:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/03/18 02:46	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/03/18 02:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/03/18 02:46	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/03/18 02:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/03/18 02:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/03/18 02:46	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		06/03/18 02:46	460-00-4	
1,2-Dichloroethane-d4 (S)	83	%	70-130	1		06/03/18 02:46	17060-07-0	
Toluene-d8 (S)	118	%	70-130	1		06/03/18 02:46	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	73.5	ug/L	2.0	1		06/06/18 12:39	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	115	%	50-150	1		06/06/18 12:39	17060-07-0	
Toluene-d8 (S)	112	%	50-150	1		06/06/18 12:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: DUP053018	Lab ID: 92386883003	Collected: 05/30/18 09:00	Received: 06/01/18 11:07	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		06/03/18 01:38	67-64-1	
Benzene	ND	ug/L	1.0	1		06/03/18 01:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/03/18 01:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/03/18 01:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/03/18 01:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/03/18 01:38	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/03/18 01:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/03/18 01:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/03/18 01:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/03/18 01:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/03/18 01:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/03/18 01:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/03/18 01:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/03/18 01:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/03/18 01:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/03/18 01:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/03/18 01:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/03/18 01:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/03/18 01:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/03/18 01:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/03/18 01:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/03/18 01:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/03/18 01:38	75-71-8	
1,1-Dichloroethane	27.1	ug/L	1.0	1		06/03/18 01:38	75-34-3	
1,2-Dichloroethane	1.8	ug/L	1.0	1		06/03/18 01:38	107-06-2	
1,1-Dichloroethene	188	ug/L	1.0	1		06/03/18 01:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/03/18 01:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/03/18 01:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/03/18 01:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/03/18 01:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/03/18 01:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/03/18 01:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/03/18 01:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/03/18 01:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/03/18 01:38	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/03/18 01:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/03/18 01:38	87-68-3	L2
2-Hexanone	ND	ug/L	5.0	1		06/03/18 01:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/03/18 01:38	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/03/18 01:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/03/18 01:38	108-10-1	
Methyl-tert-butyl ether	3.4	ug/L	1.0	1		06/03/18 01:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/03/18 01:38	91-20-3	
Styrene	ND	ug/L	1.0	1		06/03/18 01:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/03/18 01:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/03/18 01:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/03/18 01:38	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: DUP053018	Lab ID: 92386883003	Collected: 05/30/18 09:00	Received: 06/01/18 11:07	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		06/03/18 01:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/03/18 01:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/03/18 01:38	120-82-1	
1,1,1-Trichloroethane	11.5	ug/L	1.0	1		06/03/18 01:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/03/18 01:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/03/18 01:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/03/18 01:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/03/18 01:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/03/18 01:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/03/18 01:38	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/03/18 01:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/03/18 01:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/03/18 01:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		06/03/18 01:38	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		06/03/18 01:38	17060-07-0	
Toluene-d8 (S)	122	%	70-130	1		06/03/18 01:38	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	156	ug/L	5.0	2.5		06/06/18 17:53	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	118	%	50-150	1		06/05/18 20:56	17060-07-0	
Toluene-d8 (S)	111	%	50-150	1		06/05/18 20:56	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-16D	Lab ID: 92386883004	Collected: 05/30/18 14:50	Received: 06/01/18 11:07	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		06/03/18 02:12	67-64-1	
Benzene	ND	ug/L	1.0	1		06/03/18 02:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/03/18 02:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/03/18 02:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/03/18 02:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/03/18 02:12	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/03/18 02:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/03/18 02:12	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/03/18 02:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/03/18 02:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/03/18 02:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/03/18 02:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/03/18 02:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/03/18 02:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/03/18 02:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/03/18 02:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/03/18 02:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/03/18 02:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/03/18 02:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/03/18 02:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/03/18 02:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/03/18 02:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/03/18 02:12	75-71-8	
1,1-Dichloroethane	26.4	ug/L	1.0	1		06/03/18 02:12	75-34-3	
1,2-Dichloroethane	1.6	ug/L	1.0	1		06/03/18 02:12	107-06-2	
1,1-Dichloroethene	180	ug/L	1.0	1		06/03/18 02:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/03/18 02:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/03/18 02:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/03/18 02:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/03/18 02:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/03/18 02:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/03/18 02:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/03/18 02:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/03/18 02:12	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/03/18 02:12	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/03/18 02:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/03/18 02:12	87-68-3	L2
2-Hexanone	ND	ug/L	5.0	1		06/03/18 02:12	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/03/18 02:12	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/03/18 02:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/03/18 02:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/03/18 02:12	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/03/18 02:12	91-20-3	
Styrene	ND	ug/L	1.0	1		06/03/18 02:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/03/18 02:12	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/03/18 02:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/03/18 02:12	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-16D	Lab ID: 92386883004	Collected: 05/30/18 14:50	Received: 06/01/18 11:07	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		06/03/18 02:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/03/18 02:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/03/18 02:12	120-82-1	
1,1,1-Trichloroethane	10.3	ug/L	1.0	1		06/03/18 02:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/03/18 02:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/03/18 02:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/03/18 02:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/03/18 02:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/03/18 02:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/03/18 02:12	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/03/18 02:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/03/18 02:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/03/18 02:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	108	%	70-130	1		06/03/18 02:12	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130	1		06/03/18 02:12	17060-07-0	
Toluene-d8 (S)	117	%	70-130	1		06/03/18 02:12	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	153	ug/L	5.0	2.5		06/05/18 12:09	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%	50-150	2.5		06/05/18 12:09	17060-07-0	
Toluene-d8 (S)	109	%	50-150	2.5		06/05/18 12:09	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-16		Lab ID: 92386883005	Collected: 05/30/18 14:35	Received: 06/01/18 11:07	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	1250	50		06/07/18 04:31	67-64-1	
Benzene	ND	ug/L	50.0	50		06/07/18 04:31	71-43-2	
Bromobenzene	ND	ug/L	50.0	50		06/07/18 04:31	108-86-1	
Bromochloromethane	ND	ug/L	50.0	50		06/07/18 04:31	74-97-5	
Bromodichloromethane	ND	ug/L	50.0	50		06/07/18 04:31	75-27-4	
Bromoform	ND	ug/L	50.0	50		06/07/18 04:31	75-25-2	
Bromomethane	ND	ug/L	100	50		06/07/18 04:31	74-83-9	M1
2-Butanone (MEK)	ND	ug/L	250	50		06/07/18 04:31	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	50		06/07/18 04:31	56-23-5	
Chlorobenzene	ND	ug/L	50.0	50		06/07/18 04:31	108-90-7	
Chloroethane	249	ug/L	50.0	50		06/07/18 04:31	75-00-3	
Chloroform	84.0	ug/L	50.0	50		06/07/18 04:31	67-66-3	
Chloromethane	ND	ug/L	50.0	50		06/07/18 04:31	74-87-3	M1
2-Chlorotoluene	ND	ug/L	50.0	50		06/07/18 04:31	95-49-8	
4-Chlorotoluene	ND	ug/L	50.0	50		06/07/18 04:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	100	50		06/07/18 04:31	96-12-8	
Dibromochloromethane	ND	ug/L	50.0	50		06/07/18 04:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		06/07/18 04:31	106-93-4	
Dibromomethane	ND	ug/L	50.0	50		06/07/18 04:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	50		06/07/18 04:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	50.0	50		06/07/18 04:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	50.0	50		06/07/18 04:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	50.0	50		06/07/18 04:31	75-71-8	M1
1,1-Dichloroethane	6250	ug/L	50.0	50		06/07/18 04:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		06/07/18 04:31	107-06-2	
1,1-Dichloroethene	4690	ug/L	50.0	50		06/07/18 04:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	50		06/07/18 04:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		06/07/18 04:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	50.0	50		06/07/18 04:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	50.0	50		06/07/18 04:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	50.0	50		06/07/18 04:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	50.0	50		06/07/18 04:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	50.0	50		06/07/18 04:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	50.0	50		06/07/18 04:31	10061-02-6	
Diisopropyl ether	ND	ug/L	50.0	50		06/07/18 04:31	108-20-3	
Ethylbenzene	ND	ug/L	50.0	50		06/07/18 04:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	50		06/07/18 04:31	87-68-3	
2-Hexanone	ND	ug/L	250	50		06/07/18 04:31	591-78-6	
p-Isopropyltoluene	ND	ug/L	50.0	50		06/07/18 04:31	99-87-6	
Methylene Chloride	ND	ug/L	100	50		06/07/18 04:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	50		06/07/18 04:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		06/07/18 04:31	1634-04-4	
Naphthalene	ND	ug/L	50.0	50		06/07/18 04:31	91-20-3	
Styrene	ND	ug/L	50.0	50		06/07/18 04:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	50		06/07/18 04:31	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		06/07/18 04:31	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	50		06/07/18 04:31	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-16	Lab ID: 92386883005	Collected: 05/30/18 14:35	Received: 06/01/18 11:07	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	50.0	50		06/07/18 04:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	50		06/07/18 04:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	50		06/07/18 04:31	120-82-1	
1,1,1-Trichloroethane	7360	ug/L	50.0	50		06/07/18 04:31	71-55-6	M1
1,1,2-Trichloroethane	ND	ug/L	50.0	50		06/07/18 04:31	79-00-5	
Trichloroethene	ND	ug/L	50.0	50		06/07/18 04:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		06/07/18 04:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	50.0	50		06/07/18 04:31	96-18-4	
Vinyl acetate	ND	ug/L	100	50		06/07/18 04:31	108-05-4	
Vinyl chloride	ND	ug/L	50.0	50		06/07/18 04:31	75-01-4	
Xylene (Total)	ND	ug/L	50.0	50		06/07/18 04:31	1330-20-7	
m&p-Xylene	ND	ug/L	100	50		06/07/18 04:31	179601-23-1	
o-Xylene	ND	ug/L	50.0	50		06/07/18 04:31	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	50		06/07/18 04:31	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	50		06/07/18 04:31	17060-07-0	
Toluene-d8 (S)	115	%	70-130	50		06/07/18 04:31	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	636	ug/L	40.0	20		06/05/18 12:29	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	114	%	50-150	20		06/05/18 12:29	17060-07-0	
Toluene-d8 (S)	109	%	50-150	20		06/05/18 12:29	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLEX
Pace Project No.: 92386883

Sample: RW-1S		Lab ID: 92386883006	Collected: 05/30/18 14:25	Received: 06/01/18 11:07	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	62.5	2.5		06/07/18 04:48	67-64-1	
Benzene	ND	ug/L	2.5	2.5		06/07/18 04:48	71-43-2	
Bromobenzene	ND	ug/L	2.5	2.5		06/07/18 04:48	108-86-1	
Bromochloromethane	ND	ug/L	2.5	2.5		06/07/18 04:48	74-97-5	
Bromodichloromethane	ND	ug/L	2.5	2.5		06/07/18 04:48	75-27-4	
Bromoform	ND	ug/L	2.5	2.5		06/07/18 04:48	75-25-2	
Bromomethane	ND	ug/L	5.0	2.5		06/07/18 04:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	12.5	2.5		06/07/18 04:48	78-93-3	
Carbon tetrachloride	ND	ug/L	2.5	2.5		06/07/18 04:48	56-23-5	
Chlorobenzene	ND	ug/L	2.5	2.5		06/07/18 04:48	108-90-7	
Chloroethane	23.5	ug/L	2.5	2.5		06/07/18 04:48	75-00-3	
Chloroform	ND	ug/L	2.5	2.5		06/07/18 04:48	67-66-3	
Chloromethane	ND	ug/L	2.5	2.5		06/07/18 04:48	74-87-3	
2-Chlorotoluene	ND	ug/L	2.5	2.5		06/07/18 04:48	95-49-8	
4-Chlorotoluene	ND	ug/L	2.5	2.5		06/07/18 04:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5		06/07/18 04:48	96-12-8	
Dibromochloromethane	ND	ug/L	2.5	2.5		06/07/18 04:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.5	2.5		06/07/18 04:48	106-93-4	
Dibromomethane	ND	ug/L	2.5	2.5		06/07/18 04:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.5	2.5		06/07/18 04:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.5	2.5		06/07/18 04:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.5	2.5		06/07/18 04:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.5	2.5		06/07/18 04:48	75-71-8	
1,1-Dichloroethane	93.0	ug/L	2.5	2.5		06/07/18 04:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.5	2.5		06/07/18 04:48	107-06-2	
1,1-Dichloroethene	381	ug/L	2.5	2.5		06/07/18 04:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.5	2.5		06/07/18 04:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.5	2.5		06/07/18 04:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.5	2.5		06/07/18 04:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.5	2.5		06/07/18 04:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.5	2.5		06/07/18 04:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.5	2.5		06/07/18 04:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.5	2.5		06/07/18 04:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	2.5		06/07/18 04:48	10061-02-6	
Diisopropyl ether	ND	ug/L	2.5	2.5		06/07/18 04:48	108-20-3	
Ethylbenzene	ND	ug/L	2.5	2.5		06/07/18 04:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.5	2.5		06/07/18 04:48	87-68-3	
2-Hexanone	ND	ug/L	12.5	2.5		06/07/18 04:48	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.5	2.5		06/07/18 04:48	99-87-6	
Methylene Chloride	ND	ug/L	5.0	2.5		06/07/18 04:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	12.5	2.5		06/07/18 04:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.5	2.5		06/07/18 04:48	1634-04-4	
Naphthalene	ND	ug/L	2.5	2.5		06/07/18 04:48	91-20-3	
Styrene	ND	ug/L	2.5	2.5		06/07/18 04:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	2.5		06/07/18 04:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	2.5		06/07/18 04:48	79-34-5	
Tetrachloroethene	ND	ug/L	2.5	2.5		06/07/18 04:48	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: RW-1S	Lab ID: 92386883006	Collected: 05/30/18 14:25	Received: 06/01/18 11:07	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	2.5	2.5		06/07/18 04:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.5	2.5		06/07/18 04:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.5	2.5		06/07/18 04:48	120-82-1	
1,1,1-Trichloroethane	24.6	ug/L	2.5	2.5		06/07/18 04:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.5	2.5		06/07/18 04:48	79-00-5	
Trichloroethene	ND	ug/L	2.5	2.5		06/07/18 04:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.5	2.5		06/07/18 04:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	2.5		06/07/18 04:48	96-18-4	
Vinyl acetate	ND	ug/L	5.0	2.5		06/07/18 04:48	108-05-4	
Vinyl chloride	ND	ug/L	2.5	2.5		06/07/18 04:48	75-01-4	
Xylene (Total)	ND	ug/L	2.5	2.5		06/07/18 04:48	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	2.5		06/07/18 04:48	179601-23-1	
o-Xylene	ND	ug/L	2.5	2.5		06/07/18 04:48	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	2.5		06/07/18 04:48	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	2.5		06/07/18 04:48	17060-07-0	
Toluene-d8 (S)	116	%	70-130	2.5		06/07/18 04:48	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	377	ug/L	50.0	25		06/05/18 12:48	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	50-150	5		06/06/18 13:38	17060-07-0	
Toluene-d8 (S)	110	%	50-150	5		06/06/18 13:38	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-24D	Lab ID: 92386883007	Collected: 05/30/18 13:50	Received: 06/01/18 11:07	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	100	4		06/07/18 05:05	67-64-1	
Benzene	ND	ug/L	4.0	4		06/07/18 05:05	71-43-2	
Bromobenzene	ND	ug/L	4.0	4		06/07/18 05:05	108-86-1	
Bromochloromethane	ND	ug/L	4.0	4		06/07/18 05:05	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	4		06/07/18 05:05	75-27-4	
Bromoform	ND	ug/L	4.0	4		06/07/18 05:05	75-25-2	
Bromomethane	ND	ug/L	8.0	4		06/07/18 05:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	4		06/07/18 05:05	78-93-3	
Carbon tetrachloride	ND	ug/L	4.0	4		06/07/18 05:05	56-23-5	
Chlorobenzene	ND	ug/L	4.0	4		06/07/18 05:05	108-90-7	
Chloroethane	ND	ug/L	4.0	4		06/07/18 05:05	75-00-3	
Chloroform	ND	ug/L	4.0	4		06/07/18 05:05	67-66-3	
Chloromethane	ND	ug/L	4.0	4		06/07/18 05:05	74-87-3	
2-Chlorotoluene	ND	ug/L	4.0	4		06/07/18 05:05	95-49-8	
4-Chlorotoluene	ND	ug/L	4.0	4		06/07/18 05:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	8.0	4		06/07/18 05:05	96-12-8	
Dibromochloromethane	ND	ug/L	4.0	4		06/07/18 05:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	4.0	4		06/07/18 05:05	106-93-4	
Dibromomethane	ND	ug/L	4.0	4		06/07/18 05:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	4.0	4		06/07/18 05:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	4.0	4		06/07/18 05:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	4.0	4		06/07/18 05:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	4.0	4		06/07/18 05:05	75-71-8	
1,1-Dichloroethane	26.6	ug/L	4.0	4		06/07/18 05:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	4.0	4		06/07/18 05:05	107-06-2	
1,1-Dichloroethene	529	ug/L	4.0	4		06/07/18 05:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	4.0	4		06/07/18 05:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	4		06/07/18 05:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	4.0	4		06/07/18 05:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	4.0	4		06/07/18 05:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	4		06/07/18 05:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	4.0	4		06/07/18 05:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	4		06/07/18 05:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	4		06/07/18 05:05	10061-02-6	
Diisopropyl ether	ND	ug/L	4.0	4		06/07/18 05:05	108-20-3	
Ethylbenzene	ND	ug/L	4.0	4		06/07/18 05:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	4		06/07/18 05:05	87-68-3	
2-Hexanone	ND	ug/L	20.0	4		06/07/18 05:05	591-78-6	
p-Isopropyltoluene	ND	ug/L	4.0	4		06/07/18 05:05	99-87-6	
Methylene Chloride	ND	ug/L	8.0	4		06/07/18 05:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	4		06/07/18 05:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	4		06/07/18 05:05	1634-04-4	
Naphthalene	ND	ug/L	4.0	4		06/07/18 05:05	91-20-3	
Styrene	ND	ug/L	4.0	4		06/07/18 05:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	4.0	4		06/07/18 05:05	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	4.0	4		06/07/18 05:05	79-34-5	
Tetrachloroethene	ND	ug/L	4.0	4		06/07/18 05:05	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-24D	Lab ID: 92386883007	Collected: 05/30/18 13:50	Received: 06/01/18 11:07	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	4.0	4		06/07/18 05:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	4.0	4		06/07/18 05:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	4		06/07/18 05:05	120-82-1	
1,1,1-Trichloroethane	5.5	ug/L	4.0	4		06/07/18 05:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	4		06/07/18 05:05	79-00-5	
Trichloroethene	ND	ug/L	4.0	4		06/07/18 05:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	4		06/07/18 05:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	4		06/07/18 05:05	96-18-4	
Vinyl acetate	ND	ug/L	8.0	4		06/07/18 05:05	108-05-4	
Vinyl chloride	ND	ug/L	4.0	4		06/07/18 05:05	75-01-4	
Xylene (Total)	ND	ug/L	4.0	4		06/07/18 05:05	1330-20-7	
m&p-Xylene	ND	ug/L	8.0	4		06/07/18 05:05	179601-23-1	
o-Xylene	ND	ug/L	4.0	4		06/07/18 05:05	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	4		06/07/18 05:05	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	4		06/07/18 05:05	17060-07-0	
Toluene-d8 (S)	113	%	70-130	4		06/07/18 05:05	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	187	ug/L	10.0	5		06/05/18 13:08	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	115	%	50-150	5		06/05/18 13:08	17060-07-0	
Toluene-d8 (S)	110	%	50-150	5		06/05/18 13:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-03	Lab ID: 92386883008	Collected: 05/30/18 13:30	Received: 06/01/18 11:07	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		06/05/18 08:22	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/18 08:22	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/18 08:22	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/18 08:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/18 08:22	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/18 08:22	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/18 08:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/18 08:22	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/18 08:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/18 08:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/18 08:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/18 08:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/18 08:22	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/18 08:22	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/18 08:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/18 08:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/18 08:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/18 08:22	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/18 08:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/18 08:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/05/18 08:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/18 08:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/05/18 08:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/18 08:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/18 08:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/18 08:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/18 08:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/18 08:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/18 08:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/18 08:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/18 08:22	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/18 08:22	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/18 08:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/18 08:22	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/18 08:22	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/18 08:22	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/18 08:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/18 08:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/18 08:22	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/18 08:22	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/18 08:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/18 08:22	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/18 08:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/18 08:22	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx

Pace Project No.: 92386883

Sample: MW-03	Lab ID: 92386883008	Collected: 05/30/18 13:30	Received: 06/01/18 11:07	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		06/05/18 08:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/18 08:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/18 08:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/18 08:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/18 08:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/18 08:22	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/18 08:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/18 08:22	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/05/18 08:22	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/18 08:22	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/18 08:22	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		06/05/18 08:22	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		06/05/18 08:22	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/05/18 08:22	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/05/18 13:27	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	50-150	1		06/05/18 13:27	17060-07-0	
Toluene-d8 (S)	109	%	50-150	1		06/05/18 13:27	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-20		Lab ID: 92386883009	Collected: 05/30/18 13:15	Received: 06/01/18 11:07	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	50.0	2		06/07/18 05:22	67-64-1	
Benzene	ND	ug/L	2.0	2		06/07/18 05:22	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		06/07/18 05:22	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		06/07/18 05:22	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		06/07/18 05:22	75-27-4	
Bromoform	ND	ug/L	2.0	2		06/07/18 05:22	75-25-2	
Bromomethane	ND	ug/L	4.0	2		06/07/18 05:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	2		06/07/18 05:22	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		06/07/18 05:22	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		06/07/18 05:22	108-90-7	
Chloroethane	ND	ug/L	2.0	2		06/07/18 05:22	75-00-3	
Chloroform	ND	ug/L	2.0	2		06/07/18 05:22	67-66-3	
Chloromethane	ND	ug/L	2.0	2		06/07/18 05:22	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		06/07/18 05:22	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		06/07/18 05:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2		06/07/18 05:22	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		06/07/18 05:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		06/07/18 05:22	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		06/07/18 05:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		06/07/18 05:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		06/07/18 05:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		06/07/18 05:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		06/07/18 05:22	75-71-8	
1,1-Dichloroethane	114	ug/L	2.0	2		06/07/18 05:22	75-34-3	
1,2-Dichloroethane	5.5	ug/L	2.0	2		06/07/18 05:22	107-06-2	
1,1-Dichloroethene	205	ug/L	2.0	2		06/07/18 05:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		06/07/18 05:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		06/07/18 05:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		06/07/18 05:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		06/07/18 05:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		06/07/18 05:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		06/07/18 05:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		06/07/18 05:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		06/07/18 05:22	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		06/07/18 05:22	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		06/07/18 05:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		06/07/18 05:22	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		06/07/18 05:22	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		06/07/18 05:22	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2		06/07/18 05:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		06/07/18 05:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		06/07/18 05:22	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		06/07/18 05:22	91-20-3	
Styrene	ND	ug/L	2.0	2		06/07/18 05:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		06/07/18 05:22	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		06/07/18 05:22	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	2		06/07/18 05:22	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-20	Lab ID: 92386883009	Collected: 05/30/18 13:15	Received: 06/01/18 11:07	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	2.0	2		06/07/18 05:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		06/07/18 05:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		06/07/18 05:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		06/07/18 05:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		06/07/18 05:22	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		06/07/18 05:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		06/07/18 05:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		06/07/18 05:22	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		06/07/18 05:22	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		06/07/18 05:22	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		06/07/18 05:22	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		06/07/18 05:22	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		06/07/18 05:22	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	2		06/07/18 05:22	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	2		06/07/18 05:22	17060-07-0	
Toluene-d8 (S)	115	%	70-130	2		06/07/18 05:22	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	966	ug/L	20.0	10		06/05/18 13:47	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	50-150	10		06/05/18 13:47	17060-07-0	
Toluene-d8 (S)	110	%	50-150	10		06/05/18 13:47	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-04	Lab ID: 92386883010	Collected: 05/30/18 13:05	Received: 06/01/18 11:07	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		06/07/18 03:23	67-64-1	
Benzene	ND	ug/L	1.0	1		06/07/18 03:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/07/18 03:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/07/18 03:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/07/18 03:23	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/07/18 03:23	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/07/18 03:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/07/18 03:23	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/07/18 03:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/07/18 03:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/07/18 03:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/07/18 03:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/07/18 03:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/07/18 03:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/07/18 03:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/07/18 03:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/07/18 03:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/07/18 03:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/07/18 03:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/07/18 03:23	75-71-8	
1,1-Dichloroethane	33.3	ug/L	1.0	1		06/07/18 03:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/07/18 03:23	107-06-2	
1,1-Dichloroethene	153	ug/L	1.0	1		06/07/18 03:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/07/18 03:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/07/18 03:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/07/18 03:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/07/18 03:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/07/18 03:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/07/18 03:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/07/18 03:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/07/18 03:23	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/07/18 03:23	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/07/18 03:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/07/18 03:23	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/07/18 03:23	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/07/18 03:23	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/07/18 03:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/07/18 03:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/07/18 03:23	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/07/18 03:23	91-20-3	
Styrene	ND	ug/L	1.0	1		06/07/18 03:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/07/18 03:23	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/07/18 03:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/07/18 03:23	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-04	Lab ID: 92386883010	Collected: 05/30/18 13:05	Received: 06/01/18 11:07	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		06/07/18 03:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:23	120-82-1	
1,1,1-Trichloroethane	4.0	ug/L	1.0	1		06/07/18 03:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/07/18 03:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/07/18 03:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/07/18 03:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/07/18 03:23	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/07/18 03:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/07/18 03:23	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/07/18 03:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/07/18 03:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/07/18 03:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		06/07/18 03:23	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		06/07/18 03:23	17060-07-0	
Toluene-d8 (S)	114	%	70-130	1		06/07/18 03:23	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	92.7	ug/L	2.0	1		06/06/18 13:58	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%	50-150	1		06/06/18 13:58	17060-07-0	
Toluene-d8 (S)	114	%	50-150	1		06/06/18 13:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex

Pace Project No.: 92386883

Sample: MW-09	Lab ID: 92386883011	Collected: 05/30/18 12:55	Received: 06/01/18 11:07	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		06/03/18 05:19	67-64-1	
Benzene	ND	ug/L	1.0	1		06/03/18 05:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/03/18 05:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/03/18 05:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/03/18 05:19	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/03/18 05:19	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/03/18 05:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/03/18 05:19	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/03/18 05:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/03/18 05:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/03/18 05:19	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/03/18 05:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/03/18 05:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/03/18 05:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/03/18 05:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/03/18 05:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/03/18 05:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/03/18 05:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/03/18 05:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/03/18 05:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/03/18 05:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/03/18 05:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/03/18 05:19	75-71-8	
1,1-Dichloroethane	2.2	ug/L	1.0	1		06/03/18 05:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/03/18 05:19	107-06-2	
1,1-Dichloroethene	49.2	ug/L	1.0	1		06/03/18 05:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/03/18 05:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/03/18 05:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/03/18 05:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/03/18 05:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/03/18 05:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/03/18 05:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/03/18 05:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/03/18 05:19	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/03/18 05:19	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/03/18 05:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/03/18 05:19	87-68-3	L2
2-Hexanone	ND	ug/L	5.0	1		06/03/18 05:19	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/03/18 05:19	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/03/18 05:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/03/18 05:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/03/18 05:19	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/03/18 05:19	91-20-3	
Styrene	ND	ug/L	1.0	1		06/03/18 05:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/03/18 05:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/03/18 05:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/03/18 05:19	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-09	Lab ID: 92386883011	Collected: 05/30/18 12:55	Received: 06/01/18 11:07	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		06/03/18 05:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/03/18 05:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/03/18 05:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/03/18 05:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/03/18 05:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/03/18 05:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/03/18 05:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/03/18 05:19	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/03/18 05:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/03/18 05:19	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/03/18 05:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/03/18 05:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/03/18 05:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		06/03/18 05:19	460-00-4	
1,2-Dichloroethane-d4 (S)	79	%	70-130	1		06/03/18 05:19	17060-07-0	
Toluene-d8 (S)	120	%	70-130	1		06/03/18 05:19	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	23.4	ug/L	2.0	1		06/05/18 14:26	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%	50-150	1		06/05/18 14:26	17060-07-0	
Toluene-d8 (S)	111	%	50-150	1		06/05/18 14:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-23D		Lab ID: 92386883012	Collected: 05/30/18 12:40	Received: 06/01/18 11:07	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		06/07/18 03:40	67-64-1	
Benzene	ND	ug/L	1.0	1		06/07/18 03:40	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/07/18 03:40	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/07/18 03:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/07/18 03:40	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/07/18 03:40	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/07/18 03:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/07/18 03:40	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/07/18 03:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/07/18 03:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/07/18 03:40	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/07/18 03:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/07/18 03:40	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/07/18 03:40	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/07/18 03:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/07/18 03:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/07/18 03:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/07/18 03:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/07/18 03:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/07/18 03:40	75-71-8	
1,1-Dichloroethane	30.5	ug/L	1.0	1		06/07/18 03:40	75-34-3	
1,2-Dichloroethane	1.6	ug/L	1.0	1		06/07/18 03:40	107-06-2	
1,1-Dichloroethene	172	ug/L	1.0	1		06/07/18 03:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/07/18 03:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/07/18 03:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/07/18 03:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/07/18 03:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/07/18 03:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/07/18 03:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/07/18 03:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/07/18 03:40	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/07/18 03:40	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/07/18 03:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/07/18 03:40	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/07/18 03:40	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/07/18 03:40	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/07/18 03:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/07/18 03:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/07/18 03:40	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/07/18 03:40	91-20-3	
Styrene	ND	ug/L	1.0	1		06/07/18 03:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/07/18 03:40	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/07/18 03:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/07/18 03:40	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop FLEx

Pace Project No.: 92386883

Sample: MW-23D	Lab ID: 92386883012	Collected: 05/30/18 12:40	Received: 06/01/18 11:07	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		06/07/18 03:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:40	120-82-1	
1,1,1-Trichloroethane	14.8	ug/L	1.0	1		06/07/18 03:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/07/18 03:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/07/18 03:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/07/18 03:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/07/18 03:40	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/07/18 03:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/07/18 03:40	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/07/18 03:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/07/18 03:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/07/18 03:40	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		06/07/18 03:40	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		06/07/18 03:40	17060-07-0	
Toluene-d8 (S)	119	%	70-130	1		06/07/18 03:40	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	148	ug/L	5.0	2.5		06/05/18 14:46	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%	50-150	2.5		06/05/18 14:46	17060-07-0	
Toluene-d8 (S)	111	%	50-150	2.5		06/05/18 14:46	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-22D	Lab ID: 92386883013	Collected: 05/30/18 11:35	Received: 06/01/18 11:07	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		06/07/18 03:57	67-64-1	
Benzene	ND	ug/L	1.0	1		06/07/18 03:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/07/18 03:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/07/18 03:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/07/18 03:57	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/07/18 03:57	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/07/18 03:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/07/18 03:57	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/07/18 03:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/07/18 03:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/07/18 03:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/07/18 03:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/07/18 03:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/07/18 03:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/07/18 03:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/07/18 03:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/07/18 03:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/07/18 03:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/07/18 03:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/07/18 03:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/07/18 03:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/07/18 03:57	107-06-2	
1,1-Dichloroethene	13.1	ug/L	1.0	1		06/07/18 03:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/07/18 03:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/07/18 03:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/07/18 03:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/07/18 03:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/07/18 03:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/07/18 03:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/07/18 03:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/07/18 03:57	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/07/18 03:57	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/07/18 03:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/07/18 03:57	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/07/18 03:57	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/07/18 03:57	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/07/18 03:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/07/18 03:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/07/18 03:57	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/07/18 03:57	91-20-3	
Styrene	ND	ug/L	1.0	1		06/07/18 03:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/07/18 03:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/07/18 03:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/07/18 03:57	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx

Pace Project No.: 92386883

Sample: MW-22D	Lab ID: 92386883013	Collected: 05/30/18 11:35	Received: 06/01/18 11:07	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		06/07/18 03:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/07/18 03:57	120-82-1	
1,1,1-Trichloroethane	1.1	ug/L	1.0	1		06/07/18 03:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/07/18 03:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/07/18 03:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/07/18 03:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/07/18 03:57	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/07/18 03:57	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/07/18 03:57	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/07/18 03:57	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/07/18 03:57	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/07/18 03:57	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		06/07/18 03:57	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		06/07/18 03:57	17060-07-0	
Toluene-d8 (S)	110	%	70-130	1		06/07/18 03:57	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	7.9	ug/L	2.0	1		06/05/18 15:05	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	50-150	1		06/05/18 15:05	17060-07-0	
Toluene-d8 (S)	110	%	50-150	1		06/05/18 15:05	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-01D		Lab ID: 92386883014	Collected: 05/30/18 11:15	Received: 06/01/18 11:07	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		06/07/18 04:14	67-64-1	
Benzene	ND	ug/L	1.0	1		06/07/18 04:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/07/18 04:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/07/18 04:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/07/18 04:14	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/07/18 04:14	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/07/18 04:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/07/18 04:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/07/18 04:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/07/18 04:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/07/18 04:14	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/07/18 04:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/07/18 04:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/07/18 04:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/07/18 04:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/07/18 04:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/07/18 04:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/07/18 04:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/07/18 04:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/07/18 04:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/07/18 04:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/07/18 04:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/07/18 04:14	75-71-8	
1,1-Dichloroethane	14.9	ug/L	1.0	1		06/07/18 04:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/07/18 04:14	107-06-2	
1,1-Dichloroethene	71.4	ug/L	1.0	1		06/07/18 04:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/07/18 04:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/07/18 04:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/07/18 04:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/07/18 04:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/07/18 04:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/07/18 04:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/07/18 04:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/07/18 04:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/07/18 04:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/07/18 04:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/07/18 04:14	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/07/18 04:14	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/07/18 04:14	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/07/18 04:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/07/18 04:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/07/18 04:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/07/18 04:14	91-20-3	
Styrene	ND	ug/L	1.0	1		06/07/18 04:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/07/18 04:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/07/18 04:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/07/18 04:14	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-01D	Lab ID: 92386883014	Collected: 05/30/18 11:15	Received: 06/01/18 11:07	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		06/07/18 04:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/07/18 04:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/07/18 04:14	120-82-1	
1,1,1-Trichloroethane	5.3	ug/L	1.0	1		06/07/18 04:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/07/18 04:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/07/18 04:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/07/18 04:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/07/18 04:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/07/18 04:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/07/18 04:14	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/07/18 04:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/07/18 04:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/07/18 04:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/07/18 04:14	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		06/07/18 04:14	17060-07-0	
Toluene-d8 (S)	118	%	70-130	1		06/07/18 04:14	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	64.4	ug/L	2.0	1		06/06/18 14:18	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	114	%	50-150	1		06/06/18 14:18	17060-07-0	
Toluene-d8 (S)	112	%	50-150	1		06/06/18 14:18	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: RW-2D		Lab ID: 92386883015	Collected: 05/30/18 11:25	Received: 06/01/18 11:07	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	50.0	2		06/08/18 20:48	67-64-1	
Benzene	ND	ug/L	2.0	2		06/08/18 20:48	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		06/08/18 20:48	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		06/08/18 20:48	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		06/08/18 20:48	75-27-4	
Bromoform	ND	ug/L	2.0	2		06/08/18 20:48	75-25-2	
Bromomethane	ND	ug/L	4.0	2		06/08/18 20:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	2		06/08/18 20:48	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		06/08/18 20:48	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		06/08/18 20:48	108-90-7	
Chloroethane	ND	ug/L	2.0	2		06/08/18 20:48	75-00-3	
Chloroform	ND	ug/L	2.0	2		06/08/18 20:48	67-66-3	
Chloromethane	ND	ug/L	2.0	2		06/08/18 20:48	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		06/08/18 20:48	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		06/08/18 20:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2		06/08/18 20:48	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		06/08/18 20:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		06/08/18 20:48	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		06/08/18 20:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		06/08/18 20:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		06/08/18 20:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		06/08/18 20:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		06/08/18 20:48	75-71-8	
1,1-Dichloroethane	24.9	ug/L	2.0	2		06/08/18 20:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		06/08/18 20:48	107-06-2	
1,1-Dichloroethene	175	ug/L	2.0	2		06/08/18 20:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		06/08/18 20:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		06/08/18 20:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		06/08/18 20:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		06/08/18 20:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		06/08/18 20:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		06/08/18 20:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		06/08/18 20:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		06/08/18 20:48	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		06/08/18 20:48	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		06/08/18 20:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		06/08/18 20:48	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		06/08/18 20:48	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		06/08/18 20:48	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2		06/08/18 20:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		06/08/18 20:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		06/08/18 20:48	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		06/08/18 20:48	91-20-3	
Styrene	ND	ug/L	2.0	2		06/08/18 20:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		06/08/18 20:48	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		06/08/18 20:48	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	2		06/08/18 20:48	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: RW-2D	Lab ID: 92386883015	Collected: 05/30/18 11:25	Received: 06/01/18 11:07	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	2.0	2		06/08/18 20:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		06/08/18 20:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		06/08/18 20:48	120-82-1	
1,1,1-Trichloroethane	7.3	ug/L	2.0	2		06/08/18 20:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		06/08/18 20:48	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		06/08/18 20:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		06/08/18 20:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		06/08/18 20:48	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		06/08/18 20:48	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		06/08/18 20:48	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		06/08/18 20:48	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		06/08/18 20:48	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		06/08/18 20:48	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	2		06/08/18 20:48	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	2		06/08/18 20:48	17060-07-0	
Toluene-d8 (S)	104	%	70-130	2		06/08/18 20:48	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	106	ug/L	5.0	2.5		06/05/18 15:44	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	110	%	50-150	2.5		06/05/18 15:44	17060-07-0	
Toluene-d8 (S)	109	%	50-150	2.5		06/05/18 15:44	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLEX
Pace Project No.: 92386883

Sample: MW-27D	Lab ID: 92386883016	Collected: 05/30/18 08:40	Received: 06/01/18 11:07	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		06/05/18 08:39	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/18 08:39	71-43-2	M1
Bromobenzene	ND	ug/L	1.0	1		06/05/18 08:39	108-86-1	M1
Bromochloromethane	ND	ug/L	1.0	1		06/05/18 08:39	74-97-5	M1
Bromodichloromethane	ND	ug/L	1.0	1		06/05/18 08:39	75-27-4	M1
Bromoform	ND	ug/L	1.0	1		06/05/18 08:39	75-25-2	M1
Bromomethane	ND	ug/L	2.0	1		06/05/18 08:39	74-83-9	M1
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/18 08:39	78-93-3	M1
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/18 08:39	56-23-5	M1
Chlorobenzene	ND	ug/L	1.0	1		06/05/18 08:39	108-90-7	M1
Chloroethane	ND	ug/L	1.0	1		06/05/18 08:39	75-00-3	M1
Chloroform	ND	ug/L	1.0	1		06/05/18 08:39	67-66-3	M1
Chloromethane	ND	ug/L	1.0	1		06/05/18 08:39	74-87-3	M1
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/18 08:39	95-49-8	M1
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/18 08:39	106-43-4	M1
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/18 08:39	96-12-8	M1
Dibromochloromethane	ND	ug/L	1.0	1		06/05/18 08:39	124-48-1	M1
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/18 08:39	106-93-4	M1
Dibromomethane	ND	ug/L	1.0	1		06/05/18 08:39	74-95-3	M1
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:39	95-50-1	M1
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:39	541-73-1	M1
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:39	106-46-7	M1
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/18 08:39	75-71-8	M1
1,1-Dichloroethane	ND	ug/L	1.0	1		06/05/18 08:39	75-34-3	M1
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/18 08:39	107-06-2	M1
1,1-Dichloroethene	ND	ug/L	1.0	1		06/05/18 08:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/18 08:39	156-59-2	M1
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/18 08:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/18 08:39	78-87-5	M1
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/18 08:39	142-28-9	M1
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/18 08:39	594-20-7	M1
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/18 08:39	563-58-6	M1
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/18 08:39	10061-01-5	M1
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/18 08:39	10061-02-6	M1
Diisopropyl ether	ND	ug/L	1.0	1		06/05/18 08:39	108-20-3	M1
Ethylbenzene	ND	ug/L	1.0	1		06/05/18 08:39	100-41-4	M1
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/18 08:39	87-68-3	M1
2-Hexanone	ND	ug/L	5.0	1		06/05/18 08:39	591-78-6	M1
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/18 08:39	99-87-6	M1
Methylene Chloride	ND	ug/L	2.0	1		06/05/18 08:39	75-09-2	M1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/18 08:39	108-10-1	M1
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/18 08:39	1634-04-4	M1
Naphthalene	ND	ug/L	1.0	1		06/05/18 08:39	91-20-3	M1
Styrene	ND	ug/L	1.0	1		06/05/18 08:39	100-42-5	M1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/18 08:39	630-20-6	M1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/18 08:39	79-34-5	M1
Tetrachloroethene	ND	ug/L	1.0	1		06/05/18 08:39	127-18-4	M1

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-27D	Lab ID: 92386883016	Collected: 05/30/18 08:40	Received: 06/01/18 11:07	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		06/05/18 08:39	108-88-3	M1
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:39	87-61-6	M1
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:39	120-82-1	M1
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/18 08:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/18 08:39	79-00-5	M1
Trichloroethene	ND	ug/L	1.0	1		06/05/18 08:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/18 08:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/18 08:39	96-18-4	M1
Vinyl acetate	ND	ug/L	2.0	1		06/05/18 08:39	108-05-4	M1
Vinyl chloride	ND	ug/L	1.0	1		06/05/18 08:39	75-01-4	M1
Xylene (Total)	ND	ug/L	1.0	1		06/05/18 08:39	1330-20-7	MS
m&p-Xylene	ND	ug/L	2.0	1		06/05/18 08:39	179601-23-1	M1
o-Xylene	ND	ug/L	1.0	1		06/05/18 08:39	95-47-6	M1
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		06/05/18 08:39	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		06/05/18 08:39	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/05/18 08:39	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/05/18 16:04	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	50-150	1		06/05/18 16:04	17060-07-0	
Toluene-d8 (S)	110	%	50-150	1		06/05/18 16:04	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-41D	Lab ID: 92386883017	Collected: 05/30/18 11:05	Received: 06/01/18 11:07	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		06/05/18 08:56	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/18 08:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/18 08:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/18 08:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/18 08:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/18 08:56	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/18 08:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/18 08:56	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/18 08:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/18 08:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/18 08:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/18 08:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/18 08:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/18 08:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/18 08:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/18 08:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/18 08:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/18 08:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/18 08:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/18 08:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/05/18 08:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/18 08:56	107-06-2	
1,1-Dichloroethene	1.1	ug/L	1.0	1		06/05/18 08:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/18 08:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/18 08:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/18 08:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/18 08:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/18 08:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/18 08:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/18 08:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/18 08:56	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/18 08:56	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/18 08:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/18 08:56	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/18 08:56	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/18 08:56	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/18 08:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/18 08:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/18 08:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/18 08:56	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/18 08:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/18 08:56	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/18 08:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/18 08:56	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-41D	Lab ID: 92386883017	Collected: 05/30/18 11:05	Received: 06/01/18 11:07	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		06/05/18 08:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/18 08:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/18 08:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/18 08:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/18 08:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/18 08:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/18 08:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/18 08:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/18 08:56	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/05/18 08:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/18 08:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/18 08:56	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		06/05/18 08:56	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		06/05/18 08:56	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		06/05/18 08:56	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/05/18 16:23	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%	50-150	1		06/05/18 16:23	17060-07-0	
Toluene-d8 (S)	110	%	50-150	1		06/05/18 16:23	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: RW-1D		Lab ID: 92386883018	Collected: 05/30/18 10:55	Received: 06/01/18 11:07	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	100	4		06/07/18 06:30	67-64-1	
Benzene	ND	ug/L	4.0	4		06/07/18 06:30	71-43-2	
Bromobenzene	ND	ug/L	4.0	4		06/07/18 06:30	108-86-1	
Bromochloromethane	ND	ug/L	4.0	4		06/07/18 06:30	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	4		06/07/18 06:30	75-27-4	
Bromoform	ND	ug/L	4.0	4		06/07/18 06:30	75-25-2	
Bromomethane	ND	ug/L	8.0	4		06/07/18 06:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	4		06/07/18 06:30	78-93-3	
Carbon tetrachloride	ND	ug/L	4.0	4		06/07/18 06:30	56-23-5	
Chlorobenzene	ND	ug/L	4.0	4		06/07/18 06:30	108-90-7	
Chloroethane	8.2	ug/L	4.0	4		06/07/18 06:30	75-00-3	
Chloroform	ND	ug/L	4.0	4		06/07/18 06:30	67-66-3	
Chloromethane	ND	ug/L	4.0	4		06/07/18 06:30	74-87-3	
2-Chlorotoluene	ND	ug/L	4.0	4		06/07/18 06:30	95-49-8	
4-Chlorotoluene	ND	ug/L	4.0	4		06/07/18 06:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	8.0	4		06/07/18 06:30	96-12-8	
Dibromochloromethane	ND	ug/L	4.0	4		06/07/18 06:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	4.0	4		06/07/18 06:30	106-93-4	
Dibromomethane	ND	ug/L	4.0	4		06/07/18 06:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	4.0	4		06/07/18 06:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	4.0	4		06/07/18 06:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	4.0	4		06/07/18 06:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	4.0	4		06/07/18 06:30	75-71-8	
1,1-Dichloroethane	77.1	ug/L	4.0	4		06/07/18 06:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	4.0	4		06/07/18 06:30	107-06-2	
1,1-Dichloroethene	392	ug/L	4.0	4		06/07/18 06:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	4.0	4		06/07/18 06:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	4		06/07/18 06:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	4.0	4		06/07/18 06:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	4.0	4		06/07/18 06:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	4		06/07/18 06:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	4.0	4		06/07/18 06:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	4		06/07/18 06:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	4		06/07/18 06:30	10061-02-6	
Diisopropyl ether	ND	ug/L	4.0	4		06/07/18 06:30	108-20-3	
Ethylbenzene	ND	ug/L	4.0	4		06/07/18 06:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	4		06/07/18 06:30	87-68-3	
2-Hexanone	ND	ug/L	20.0	4		06/07/18 06:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	4.0	4		06/07/18 06:30	99-87-6	
Methylene Chloride	ND	ug/L	8.0	4		06/07/18 06:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	4		06/07/18 06:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	4		06/07/18 06:30	1634-04-4	
Naphthalene	ND	ug/L	4.0	4		06/07/18 06:30	91-20-3	
Styrene	ND	ug/L	4.0	4		06/07/18 06:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	4.0	4		06/07/18 06:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	4.0	4		06/07/18 06:30	79-34-5	
Tetrachloroethene	ND	ug/L	4.0	4		06/07/18 06:30	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: RW-1D	Lab ID: 92386883018	Collected: 05/30/18 10:55	Received: 06/01/18 11:07	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	4.0	4		06/07/18 06:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	4.0	4		06/07/18 06:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	4		06/07/18 06:30	120-82-1	
1,1,1-Trichloroethane	6.3	ug/L	4.0	4		06/07/18 06:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	4		06/07/18 06:30	79-00-5	
Trichloroethene	ND	ug/L	4.0	4		06/07/18 06:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	4		06/07/18 06:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	4		06/07/18 06:30	96-18-4	
Vinyl acetate	ND	ug/L	8.0	4		06/07/18 06:30	108-05-4	
Vinyl chloride	ND	ug/L	4.0	4		06/07/18 06:30	75-01-4	
Xylene (Total)	ND	ug/L	4.0	4		06/07/18 06:30	1330-20-7	
m&p-Xylene	ND	ug/L	8.0	4		06/07/18 06:30	179601-23-1	
o-Xylene	ND	ug/L	4.0	4		06/07/18 06:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	4		06/07/18 06:30	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	4		06/07/18 06:30	17060-07-0	
Toluene-d8 (S)	113	%	70-130	4		06/07/18 06:30	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	139	ug/L	5.0	2.5		06/06/18 12:20	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	50-150	1		06/05/18 16:43	17060-07-0	
Toluene-d8 (S)	110	%	50-150	1		06/05/18 16:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-21D	Lab ID: 92386883019	Collected: 05/30/18 10:45	Received: 06/01/18 11:07	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		06/06/18 06:13	67-64-1	
Benzene	ND	ug/L	1.0	1		06/06/18 06:13	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/06/18 06:13	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/06/18 06:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/06/18 06:13	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/06/18 06:13	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/06/18 06:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/06/18 06:13	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/06/18 06:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/06/18 06:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/06/18 06:13	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/06/18 06:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/06/18 06:13	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 06:13	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 06:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/06/18 06:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/06/18 06:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/06/18 06:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/06/18 06:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/06/18 06:13	75-71-8	
1,1-Dichloroethane	1.0	ug/L	1.0	1		06/06/18 06:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/06/18 06:13	107-06-2	
1,1-Dichloroethene	38.8	ug/L	1.0	1		06/06/18 06:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 06:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 06:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 06:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/06/18 06:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 06:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/06/18 06:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 06:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 06:13	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/06/18 06:13	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/06/18 06:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/06/18 06:13	87-68-3	L2
2-Hexanone	ND	ug/L	5.0	1		06/06/18 06:13	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/06/18 06:13	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/06/18 06:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/06/18 06:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/06/18 06:13	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/06/18 06:13	91-20-3	
Styrene	ND	ug/L	1.0	1		06/06/18 06:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 06:13	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 06:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/06/18 06:13	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-21D	Lab ID: 92386883019	Collected: 05/30/18 10:45	Received: 06/01/18 11:07	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		06/06/18 06:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/06/18 06:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/06/18 06:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/06/18 06:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/06/18 06:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/06/18 06:13	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/06/18 06:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/06/18 06:13	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/06/18 06:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/06/18 06:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/06/18 06:13	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/06/18 06:13	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		06/06/18 06:13	17060-07-0	
Toluene-d8 (S)	113	%	70-130	1		06/06/18 06:13	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	32.2	ug/L	2.0	1		06/05/18 17:02	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	50-150	1		06/05/18 17:02	17060-07-0	
Toluene-d8 (S)	109	%	50-150	1		06/05/18 17:02	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-44	Lab ID: 92386883020	Collected: 05/30/18 10:35	Received: 06/01/18 11:07	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		06/05/18 09:47	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/18 09:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/05/18 09:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/05/18 09:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/05/18 09:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/05/18 09:47	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/05/18 09:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/05/18 09:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/05/18 09:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/05/18 09:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/05/18 09:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/05/18 09:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/05/18 09:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/05/18 09:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/05/18 09:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/05/18 09:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/05/18 09:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/05/18 09:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/05/18 09:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 09:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 09:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/05/18 09:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/05/18 09:47	75-71-8	
1,1-Dichloroethane	1.4	ug/L	1.0	1		06/05/18 09:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/05/18 09:47	107-06-2	
1,1-Dichloroethene	1.4	ug/L	1.0	1		06/05/18 09:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/18 09:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/18 09:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/05/18 09:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/05/18 09:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/05/18 09:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/05/18 09:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/18 09:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/05/18 09:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/05/18 09:47	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/05/18 09:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/05/18 09:47	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/05/18 09:47	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/05/18 09:47	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/05/18 09:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/05/18 09:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/05/18 09:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/05/18 09:47	91-20-3	
Styrene	ND	ug/L	1.0	1		06/05/18 09:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/18 09:47	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/05/18 09:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/18 09:47	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-44	Lab ID: 92386883020	Collected: 05/30/18 10:35	Received: 06/01/18 11:07	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		06/05/18 09:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/05/18 09:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/05/18 09:47	120-82-1	
1,1,1-Trichloroethane	4.9	ug/L	1.0	1		06/05/18 09:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/18 09:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/18 09:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/05/18 09:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/05/18 09:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/05/18 09:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/05/18 09:47	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/05/18 09:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/05/18 09:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/05/18 09:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		06/05/18 09:47	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		06/05/18 09:47	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		06/05/18 09:47	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	8.4	ug/L	2.0	1		06/05/18 17:22	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	50-150	1		06/05/18 17:22	17060-07-0	
Toluene-d8 (S)	113	%	50-150	1		06/05/18 17:22	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: RW-2S	Lab ID: 92386883021	Collected: 05/30/18 10:25	Received: 06/01/18 11:07	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	50.0	2		06/08/18 21:04	67-64-1	
Benzene	ND	ug/L	2.0	2		06/08/18 21:04	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		06/08/18 21:04	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		06/08/18 21:04	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		06/08/18 21:04	75-27-4	
Bromoform	ND	ug/L	2.0	2		06/08/18 21:04	75-25-2	
Bromomethane	ND	ug/L	4.0	2		06/08/18 21:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	2		06/08/18 21:04	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		06/08/18 21:04	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		06/08/18 21:04	108-90-7	
Chloroethane	ND	ug/L	2.0	2		06/08/18 21:04	75-00-3	
Chloroform	ND	ug/L	2.0	2		06/08/18 21:04	67-66-3	
Chloromethane	ND	ug/L	2.0	2		06/08/18 21:04	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		06/08/18 21:04	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		06/08/18 21:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2		06/08/18 21:04	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		06/08/18 21:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		06/08/18 21:04	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		06/08/18 21:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		06/08/18 21:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		06/08/18 21:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		06/08/18 21:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		06/08/18 21:04	75-71-8	
1,1-Dichloroethane	33.0	ug/L	2.0	2		06/08/18 21:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		06/08/18 21:04	107-06-2	
1,1-Dichloroethene	203	ug/L	2.0	2		06/08/18 21:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		06/08/18 21:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		06/08/18 21:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		06/08/18 21:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		06/08/18 21:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		06/08/18 21:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		06/08/18 21:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		06/08/18 21:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		06/08/18 21:04	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		06/08/18 21:04	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		06/08/18 21:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		06/08/18 21:04	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		06/08/18 21:04	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		06/08/18 21:04	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2		06/08/18 21:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		06/08/18 21:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		06/08/18 21:04	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		06/08/18 21:04	91-20-3	
Styrene	ND	ug/L	2.0	2		06/08/18 21:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		06/08/18 21:04	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		06/08/18 21:04	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	2		06/08/18 21:04	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: RW-2S	Lab ID: 92386883021	Collected: 05/30/18 10:25	Received: 06/01/18 11:07	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	2.0	2		06/08/18 21:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		06/08/18 21:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		06/08/18 21:04	120-82-1	
1,1,1-Trichloroethane	290	ug/L	2.0	2		06/08/18 21:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		06/08/18 21:04	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		06/08/18 21:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		06/08/18 21:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		06/08/18 21:04	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		06/08/18 21:04	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		06/08/18 21:04	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		06/08/18 21:04	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		06/08/18 21:04	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		06/08/18 21:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	2		06/08/18 21:04	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	2		06/08/18 21:04	17060-07-0	
Toluene-d8 (S)	106	%	70-130	2		06/08/18 21:04	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	200	ug/L	20.0	10		06/05/18 17:41	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	115	%	50-150	10		06/05/18 17:41	17060-07-0	
Toluene-d8 (S)	112	%	50-150	10		06/05/18 17:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: RW-3S	Lab ID: 92386883022	Collected: 05/30/18 10:15	Received: 06/01/18 11:07	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		06/06/18 06:30	67-64-1	
Benzene	ND	ug/L	1.0	1		06/06/18 06:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/06/18 06:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/06/18 06:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/06/18 06:30	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/06/18 06:30	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/06/18 06:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/06/18 06:30	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/06/18 06:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/06/18 06:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/06/18 06:30	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/06/18 06:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/06/18 06:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 06:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 06:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/06/18 06:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/06/18 06:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/06/18 06:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/06/18 06:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/06/18 06:30	75-71-8	
1,1-Dichloroethane	1.9	ug/L	1.0	1		06/06/18 06:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/06/18 06:30	107-06-2	
1,1-Dichloroethene	2.6	ug/L	1.0	1		06/06/18 06:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 06:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 06:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 06:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/06/18 06:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 06:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/06/18 06:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 06:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 06:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/06/18 06:30	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/06/18 06:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/06/18 06:30	87-68-3	L2
2-Hexanone	ND	ug/L	5.0	1		06/06/18 06:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/06/18 06:30	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/06/18 06:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/06/18 06:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/06/18 06:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/06/18 06:30	91-20-3	
Styrene	ND	ug/L	1.0	1		06/06/18 06:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 06:30	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 06:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/06/18 06:30	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: RW-3S	Lab ID: 92386883022	Collected: 05/30/18 10:15	Received: 06/01/18 11:07	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		06/06/18 06:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:30	120-82-1	
1,1,1-Trichloroethane	6.1	ug/L	1.0	1		06/06/18 06:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/06/18 06:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/06/18 06:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/06/18 06:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/06/18 06:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/06/18 06:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/06/18 06:30	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/06/18 06:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/06/18 06:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/06/18 06:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/06/18 06:30	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		06/06/18 06:30	17060-07-0	
Toluene-d8 (S)	116	%	70-130	1		06/06/18 06:30	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	10.4	ug/L	2.0	1		06/05/18 18:40	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	50-150	1		06/05/18 18:40	17060-07-0	
Toluene-d8 (S)	112	%	50-150	1		06/05/18 18:40	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-38R	Lab ID: 92386883023	Collected: 05/30/18 10:05	Received: 06/01/18 11:07	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		06/06/18 06:47	67-64-1	
Benzene	ND	ug/L	1.0	1		06/06/18 06:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/06/18 06:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/06/18 06:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/06/18 06:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/06/18 06:47	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/06/18 06:47	74-83-9	M1
2-Butanone (MEK)	ND	ug/L	5.0	1		06/06/18 06:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/06/18 06:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/06/18 06:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/06/18 06:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/06/18 06:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/06/18 06:47	74-87-3	M1
2-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 06:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 06:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/06/18 06:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/06/18 06:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/06/18 06:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/06/18 06:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/06/18 06:47	75-71-8	M1
1,1-Dichloroethane	4.3	ug/L	1.0	1		06/06/18 06:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/06/18 06:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/06/18 06:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 06:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 06:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 06:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/06/18 06:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 06:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/06/18 06:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 06:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 06:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/06/18 06:47	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/06/18 06:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/06/18 06:47	87-68-3	L2
2-Hexanone	ND	ug/L	5.0	1		06/06/18 06:47	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/06/18 06:47	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/06/18 06:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/06/18 06:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/06/18 06:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/06/18 06:47	91-20-3	
Styrene	ND	ug/L	1.0	1		06/06/18 06:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 06:47	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 06:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/06/18 06:47	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-38R	Lab ID: 92386883023	Collected: 05/30/18 10:05	Received: 06/01/18 11:07	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		06/06/18 06:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 06:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/06/18 06:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/06/18 06:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/06/18 06:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/06/18 06:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/06/18 06:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/06/18 06:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/06/18 06:47	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/06/18 06:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/06/18 06:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/06/18 06:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		06/06/18 06:47	460-00-4	
1,2-Dichloroethane-d4 (S)	83	%	70-130	1		06/06/18 06:47	17060-07-0	
Toluene-d8 (S)	114	%	70-130	1		06/06/18 06:47	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	40.7	ug/L	2.0	1		06/05/18 18:59	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	50-150	1		06/05/18 18:59	17060-07-0	
Toluene-d8 (S)	108	%	50-150	1		06/05/18 18:59	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-05R	Lab ID: 92386883024	Collected: 05/30/18 09:55	Received: 06/01/18 11:07	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		06/06/18 07:04	67-64-1	
Benzene	ND	ug/L	1.0	1		06/06/18 07:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/06/18 07:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/06/18 07:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/06/18 07:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/06/18 07:04	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/06/18 07:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/06/18 07:04	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/06/18 07:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/06/18 07:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/06/18 07:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/06/18 07:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/06/18 07:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 07:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 07:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/06/18 07:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/06/18 07:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/06/18 07:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/06/18 07:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/06/18 07:04	75-71-8	
1,1-Dichloroethane	1.8	ug/L	1.0	1		06/06/18 07:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/06/18 07:04	107-06-2	
1,1-Dichloroethene	2.7	ug/L	1.0	1		06/06/18 07:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 07:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 07:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 07:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/06/18 07:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 07:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/06/18 07:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 07:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 07:04	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/06/18 07:04	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/06/18 07:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/06/18 07:04	87-68-3	L2
2-Hexanone	ND	ug/L	5.0	1		06/06/18 07:04	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/06/18 07:04	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/06/18 07:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/06/18 07:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/06/18 07:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/06/18 07:04	91-20-3	
Styrene	ND	ug/L	1.0	1		06/06/18 07:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 07:04	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 07:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/06/18 07:04	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-05R	Lab ID: 92386883024	Collected: 05/30/18 09:55	Received: 06/01/18 11:07	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		06/06/18 07:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:04	120-82-1	
1,1,1-Trichloroethane	1.4	ug/L	1.0	1		06/06/18 07:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/06/18 07:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/06/18 07:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/06/18 07:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/06/18 07:04	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/06/18 07:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/06/18 07:04	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/06/18 07:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/06/18 07:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/06/18 07:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		06/06/18 07:04	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		06/06/18 07:04	17060-07-0	
Toluene-d8 (S)	116	%	70-130	1		06/06/18 07:04	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	11.5	ug/L	2.0	1		06/05/18 19:19	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	110	%	50-150	1		06/05/18 19:19	17060-07-0	
Toluene-d8 (S)	111	%	50-150	1		06/05/18 19:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-40D	Lab ID: 92386883025	Collected: 05/30/18 09:40	Received: 06/01/18 11:07	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		06/06/18 07:20	67-64-1	
Benzene	ND	ug/L	1.0	1		06/06/18 07:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/06/18 07:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/06/18 07:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/06/18 07:20	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/06/18 07:20	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/06/18 07:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/06/18 07:20	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/06/18 07:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/06/18 07:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/06/18 07:20	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/06/18 07:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/06/18 07:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 07:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 07:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/06/18 07:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/06/18 07:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/06/18 07:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/06/18 07:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/06/18 07:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/06/18 07:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/06/18 07:20	107-06-2	
1,1-Dichloroethene	2.9	ug/L	1.0	1		06/06/18 07:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 07:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 07:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 07:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/06/18 07:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 07:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/06/18 07:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 07:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 07:20	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/06/18 07:20	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/06/18 07:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/06/18 07:20	87-68-3	L2
2-Hexanone	ND	ug/L	5.0	1		06/06/18 07:20	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/06/18 07:20	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/06/18 07:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/06/18 07:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/06/18 07:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/06/18 07:20	91-20-3	
Styrene	ND	ug/L	1.0	1		06/06/18 07:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 07:20	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 07:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/06/18 07:20	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-40D	Lab ID: 92386883025	Collected: 05/30/18 09:40	Received: 06/01/18 11:07	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		06/06/18 07:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/06/18 07:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/06/18 07:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/06/18 07:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/06/18 07:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/06/18 07:20	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/06/18 07:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/06/18 07:20	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/06/18 07:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/06/18 07:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/06/18 07:20	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		06/06/18 07:20	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		06/06/18 07:20	17060-07-0	
Toluene-d8 (S)	119	%	70-130	1		06/06/18 07:20	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/05/18 19:38	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	50-150	1		06/05/18 19:38	17060-07-0	
Toluene-d8 (S)	108	%	50-150	1		06/05/18 19:38	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-18	Lab ID: 92386883026	Collected: 05/30/18 09:30	Received: 06/01/18 11:07	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		06/06/18 07:37	67-64-1	
Benzene	ND	ug/L	1.0	1		06/06/18 07:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/06/18 07:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/06/18 07:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/06/18 07:37	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/06/18 07:37	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/06/18 07:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/06/18 07:37	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/06/18 07:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/06/18 07:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/06/18 07:37	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/06/18 07:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/06/18 07:37	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 07:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 07:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/06/18 07:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/06/18 07:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/06/18 07:37	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/06/18 07:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/06/18 07:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/06/18 07:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/06/18 07:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/06/18 07:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 07:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 07:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 07:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/06/18 07:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 07:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/06/18 07:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 07:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 07:37	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/06/18 07:37	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/06/18 07:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/06/18 07:37	87-68-3	L2
2-Hexanone	ND	ug/L	5.0	1		06/06/18 07:37	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/06/18 07:37	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/06/18 07:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/06/18 07:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/06/18 07:37	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/06/18 07:37	91-20-3	
Styrene	ND	ug/L	1.0	1		06/06/18 07:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 07:37	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 07:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/06/18 07:37	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-18	Lab ID: 92386883026	Collected: 05/30/18 09:30	Received: 06/01/18 11:07	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		06/06/18 07:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/06/18 07:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/06/18 07:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/06/18 07:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/06/18 07:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/06/18 07:37	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/06/18 07:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/06/18 07:37	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/06/18 07:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/06/18 07:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/06/18 07:37	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		06/06/18 07:37	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130	1		06/06/18 07:37	17060-07-0	
Toluene-d8 (S)	115	%	70-130	1		06/06/18 07:37	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/05/18 19:57	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	50-150	1		06/05/18 19:57	17060-07-0	
Toluene-d8 (S)	110	%	50-150	1		06/05/18 19:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-42	Lab ID: 92386883027	Collected: 05/30/18 09:20	Received: 06/01/18 11:07	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		06/06/18 07:54	67-64-1	
Benzene	ND	ug/L	1.0	1		06/06/18 07:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/06/18 07:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/06/18 07:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/06/18 07:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/06/18 07:54	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/06/18 07:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/06/18 07:54	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/06/18 07:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/06/18 07:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/06/18 07:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/06/18 07:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/06/18 07:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 07:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 07:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/06/18 07:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/06/18 07:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/06/18 07:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/06/18 07:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/06/18 07:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/06/18 07:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/06/18 07:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/06/18 07:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 07:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 07:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 07:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/06/18 07:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 07:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/06/18 07:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 07:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 07:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/06/18 07:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/06/18 07:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/06/18 07:54	87-68-3	L2
2-Hexanone	ND	ug/L	5.0	1		06/06/18 07:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/06/18 07:54	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/06/18 07:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/06/18 07:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/06/18 07:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/06/18 07:54	91-20-3	
Styrene	ND	ug/L	1.0	1		06/06/18 07:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 07:54	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 07:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/06/18 07:54	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-42	Lab ID: 92386883027	Collected: 05/30/18 09:20		Received: 06/01/18 11:07		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		06/06/18 07:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 07:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/06/18 07:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/06/18 07:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/06/18 07:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/06/18 07:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/06/18 07:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/06/18 07:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/06/18 07:54	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/06/18 07:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/06/18 07:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/06/18 07:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/06/18 07:54	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		06/06/18 07:54	17060-07-0	
Toluene-d8 (S)	117	%	70-130	1		06/06/18 07:54	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	7.4	ug/L	2.0	1		06/05/18 20:17	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	50-150	1		06/05/18 20:17	17060-07-0	
Toluene-d8 (S)	110	%	50-150	1		06/05/18 20:17	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-39	Lab ID: 92386883028	Collected: 05/30/18 09:10	Received: 06/01/18 11:07	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		06/06/18 08:11	67-64-1	
Benzene	ND	ug/L	1.0	1		06/06/18 08:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/06/18 08:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/06/18 08:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/06/18 08:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/06/18 08:11	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/06/18 08:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/06/18 08:11	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/06/18 08:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/06/18 08:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/06/18 08:11	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/06/18 08:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/06/18 08:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 08:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 08:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/06/18 08:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/06/18 08:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/06/18 08:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/06/18 08:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 08:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 08:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 08:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/06/18 08:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/06/18 08:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/06/18 08:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/06/18 08:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 08:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 08:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 08:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/06/18 08:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 08:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/06/18 08:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 08:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 08:11	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/06/18 08:11	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/06/18 08:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/06/18 08:11	87-68-3	L2
2-Hexanone	ND	ug/L	5.0	1		06/06/18 08:11	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/06/18 08:11	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/06/18 08:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/06/18 08:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/06/18 08:11	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/06/18 08:11	91-20-3	
Styrene	ND	ug/L	1.0	1		06/06/18 08:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 08:11	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 08:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/06/18 08:11	127-18-4	

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ANALYTICAL RESULTS

Project: Kop FLEx

Pace Project No.: 92386883

Sample: MW-39	Lab ID: 92386883028	Collected: 05/30/18 09:10	Received: 06/01/18 11:07	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		06/06/18 08:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 08:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 08:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/06/18 08:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/06/18 08:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/06/18 08:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/06/18 08:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/06/18 08:11	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/06/18 08:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/06/18 08:11	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/06/18 08:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/06/18 08:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/06/18 08:11	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		06/06/18 08:11	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		06/06/18 08:11	17060-07-0	
Toluene-d8 (S)	115	%	70-130	1		06/06/18 08:11	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/05/18 20:36	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	50-150	1		06/05/18 20:36	17060-07-0	
Toluene-d8 (S)	109	%	50-150	1		06/05/18 20:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop FLex
Pace Project No.: 92386883

Sample: MW-43	Lab ID: 92386883029	Collected: 05/30/18 08:55	Received: 06/01/18 11:07	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		06/06/18 08:29	67-64-1	
Benzene	ND	ug/L	1.0	1		06/06/18 08:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/06/18 08:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/06/18 08:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/06/18 08:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/06/18 08:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/06/18 08:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/06/18 08:29	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/06/18 08:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/06/18 08:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/06/18 08:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/06/18 08:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/06/18 08:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 08:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/06/18 08:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/06/18 08:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/06/18 08:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/06/18 08:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/06/18 08:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 08:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 08:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/06/18 08:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/06/18 08:29	75-71-8	
1,1-Dichloroethane	5.9	ug/L	1.0	1		06/06/18 08:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/06/18 08:29	107-06-2	
1,1-Dichloroethene	68.0	ug/L	1.0	1		06/06/18 08:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 08:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/06/18 08:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 08:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/06/18 08:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/06/18 08:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/06/18 08:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 08:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/06/18 08:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/06/18 08:29	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/06/18 08:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/06/18 08:29	87-68-3	L2
2-Hexanone	ND	ug/L	5.0	1		06/06/18 08:29	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/06/18 08:29	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/06/18 08:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/06/18 08:29	108-10-1	
Methyl-tert-butyl ether	4.7	ug/L	1.0	1		06/06/18 08:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/06/18 08:29	91-20-3	
Styrene	ND	ug/L	1.0	1		06/06/18 08:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 08:29	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/06/18 08:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/06/18 08:29	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop FLEx
Pace Project No.: 92386883

Sample: MW-43	Lab ID: 92386883029	Collected: 05/30/18 08:55	Received: 06/01/18 11:07	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		06/06/18 08:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 08:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/06/18 08:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/06/18 08:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/06/18 08:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/06/18 08:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/06/18 08:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/06/18 08:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/06/18 08:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/06/18 08:29	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/06/18 08:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/06/18 08:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/06/18 08:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/06/18 08:29	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		06/06/18 08:29	17060-07-0	
Toluene-d8 (S)	116	%	70-130	1		06/06/18 08:29	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	57.6	ug/L	2.0	1		06/06/18 14:37	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	50-150	1		06/06/18 14:37	17060-07-0	
Toluene-d8 (S)	110	%	50-150	1		06/06/18 14:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLEX
Pace Project No.: 92386883

QC Batch: 413518 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92386883002, 92386883003, 92386883004, 92386883011

METHOD BLANK: 2293248 Matrix: Water
Associated Lab Samples: 92386883002, 92386883003, 92386883004, 92386883011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/02/18 23:06	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/02/18 23:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/02/18 23:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/02/18 23:06	
1,1-Dichloroethane	ug/L	ND	1.0	06/02/18 23:06	
1,1-Dichloroethene	ug/L	ND	1.0	06/02/18 23:06	
1,1-Dichloropropene	ug/L	ND	1.0	06/02/18 23:06	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/02/18 23:06	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/02/18 23:06	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/02/18 23:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/02/18 23:06	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/02/18 23:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/02/18 23:06	
1,2-Dichloroethane	ug/L	ND	1.0	06/02/18 23:06	
1,2-Dichloropropane	ug/L	ND	1.0	06/02/18 23:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/02/18 23:06	
1,3-Dichloropropane	ug/L	ND	1.0	06/02/18 23:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/02/18 23:06	
2,2-Dichloropropane	ug/L	ND	1.0	06/02/18 23:06	
2-Butanone (MEK)	ug/L	ND	5.0	06/02/18 23:06	
2-Chlorotoluene	ug/L	ND	1.0	06/02/18 23:06	
2-Hexanone	ug/L	ND	5.0	06/02/18 23:06	
4-Chlorotoluene	ug/L	ND	1.0	06/02/18 23:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/02/18 23:06	
Acetone	ug/L	ND	25.0	06/02/18 23:06	
Benzene	ug/L	ND	1.0	06/02/18 23:06	
Bromobenzene	ug/L	ND	1.0	06/02/18 23:06	
Bromochloromethane	ug/L	ND	1.0	06/02/18 23:06	
Bromodichloromethane	ug/L	ND	1.0	06/02/18 23:06	
Bromoform	ug/L	ND	1.0	06/02/18 23:06	
Bromomethane	ug/L	ND	2.0	06/02/18 23:06	
Carbon tetrachloride	ug/L	ND	1.0	06/02/18 23:06	
Chlorobenzene	ug/L	ND	1.0	06/02/18 23:06	
Chloroethane	ug/L	ND	1.0	06/02/18 23:06	
Chloroform	ug/L	ND	1.0	06/02/18 23:06	
Chloromethane	ug/L	ND	1.0	06/02/18 23:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/02/18 23:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/02/18 23:06	
Dibromochloromethane	ug/L	ND	1.0	06/02/18 23:06	
Dibromomethane	ug/L	ND	1.0	06/02/18 23:06	
Dichlorodifluoromethane	ug/L	ND	1.0	06/02/18 23:06	

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QUALITY CONTROL DATA

Project: Kop FLEx
Pace Project No.: 92386883

METHOD BLANK: 2293248 Matrix: Water
Associated Lab Samples: 92386883002, 92386883003, 92386883004, 92386883011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	06/02/18 23:06	
Ethylbenzene	ug/L	ND	1.0	06/02/18 23:06	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/02/18 23:06	
m&p-Xylene	ug/L	ND	2.0	06/02/18 23:06	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/02/18 23:06	
Methylene Chloride	ug/L	ND	2.0	06/02/18 23:06	
Naphthalene	ug/L	ND	1.0	06/02/18 23:06	
o-Xylene	ug/L	ND	1.0	06/02/18 23:06	
p-Isopropyltoluene	ug/L	ND	1.0	06/02/18 23:06	
Styrene	ug/L	ND	1.0	06/02/18 23:06	
Tetrachloroethene	ug/L	ND	1.0	06/02/18 23:06	
Toluene	ug/L	ND	1.0	06/02/18 23:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/02/18 23:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/02/18 23:06	
Trichloroethene	ug/L	ND	1.0	06/02/18 23:06	
Trichlorofluoromethane	ug/L	ND	1.0	06/02/18 23:06	
Vinyl acetate	ug/L	ND	2.0	06/02/18 23:06	
Vinyl chloride	ug/L	ND	1.0	06/02/18 23:06	
Xylene (Total)	ug/L	ND	1.0	06/02/18 23:06	
1,2-Dichloroethane-d4 (S)	%	80	70-130	06/02/18 23:06	
4-Bromofluorobenzene (S)	%	100	70-130	06/02/18 23:06	
Toluene-d8 (S)	%	117	70-130	06/02/18 23:06	

LABORATORY CONTROL SAMPLE: 2293249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.1	92	80-125	
1,1,1-Trichloroethane	ug/L	50	53.9	108	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	42.6	85	79-124	
1,1,2-Trichloroethane	ug/L	50	48.3	97	85-125	
1,1-Dichloroethane	ug/L	50	44.9	90	73-126	
1,1-Dichloroethene	ug/L	50	51.6	103	66-135	
1,1-Dichloropropene	ug/L	50	48.1	96	74-135	
1,2,3-Trichlorobenzene	ug/L	50	43.1	86	73-135	
1,2,3-Trichloropropane	ug/L	50	43.9	88	75-130	
1,2,4-Trichlorobenzene	ug/L	50	42.6	85	75-134	
1,2-Dibromo-3-chloropropane	ug/L	50	43.3	87	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	48.3	97	83-124	
1,2-Dichlorobenzene	ug/L	50	46.6	93	80-133	
1,2-Dichloroethane	ug/L	50	51.4	103	67-128	
1,2-Dichloropropane	ug/L	50	51.3	103	75-132	
1,3-Dichlorobenzene	ug/L	50	45.6	91	77-130	
1,3-Dichloropropane	ug/L	50	48.5	97	76-131	
1,4-Dichlorobenzene	ug/L	50	45.0	90	78-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLEx
Pace Project No.: 92386883

LABORATORY CONTROL SAMPLE: 2293249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	46.4	93	40-160	
2-Butanone (MEK)	ug/L	100	76.4	76	61-144	
2-Chlorotoluene	ug/L	50	45.1	90	74-132	
2-Hexanone	ug/L	100	75.5	75	68-143	
4-Chlorotoluene	ug/L	50	45.0	90	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	83.8	84	72-135	
Acetone	ug/L	100	92.9	93	48-146	
Benzene	ug/L	50	50.0	100	80-125	
Bromobenzene	ug/L	50	46.0	92	75-125	
Bromochloromethane	ug/L	50	52.7	105	71-125	
Bromodichloromethane	ug/L	50	48.5	97	78-124	
Bromoform	ug/L	50	40.9	82	71-128	
Bromomethane	ug/L	50	35.3	71	40-160	
Carbon tetrachloride	ug/L	50	50.0	100	69-131	
Chlorobenzene	ug/L	50	45.5	91	81-122	
Chloroethane	ug/L	50	40.6	81	39-148	
Chloroform	ug/L	50	48.8	98	73-127	
Chloromethane	ug/L	50	42.0	84	44-146	
cis-1,2-Dichloroethene	ug/L	50	47.2	94	74-124	
cis-1,3-Dichloropropene	ug/L	50	49.6	99	72-132	
Dibromochloromethane	ug/L	50	45.4	91	78-125	
Dibromomethane	ug/L	50	49.0	98	82-120	
Dichlorodifluoromethane	ug/L	50	51.5	103	34-157	
Diisopropyl ether	ug/L	50	42.9	86	69-135	
Ethylbenzene	ug/L	50	45.2	90	79-121	
Hexachloro-1,3-butadiene	ug/L	50	35.6	71	72-131	L2
m&p-Xylene	ug/L	100	91.6	92	81-124	
Methyl-tert-butyl ether	ug/L	50	43.3	87	74-131	
Methylene Chloride	ug/L	50	50.4	101	64-133	
Naphthalene	ug/L	50	45.2	90	73-133	
o-Xylene	ug/L	50	46.3	93	79-131	
p-Isopropyltoluene	ug/L	50	43.2	86	80-131	
Styrene	ug/L	50	46.1	92	84-126	
Tetrachloroethene	ug/L	50	43.4	87	78-122	
Toluene	ug/L	50	49.5	99	80-121	
trans-1,2-Dichloroethene	ug/L	50	47.8	96	71-127	
trans-1,3-Dichloropropene	ug/L	50	48.1	96	69-141	
Trichloroethene	ug/L	50	49.3	99	78-122	
Trichlorofluoromethane	ug/L	50	49.2	98	53-137	
Vinyl acetate	ug/L	100	91.7	92	40-160	
Vinyl chloride	ug/L	50	47.7	95	50-150	
Xylene (Total)	ug/L	150	138	92	81-126	
1,2-Dichloroethane-d4 (S)	%			109	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

MATRIX SPIKE SAMPLE:	2293251	92386848013	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	17.8	89	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	21.4	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	18.2	91	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	18.6	93	70-130	
1,1-Dichloroethane	ug/L	ND	20	19.5	98	70-130	
1,1-Dichloroethene	ug/L	ND	20	24.1	121	70-166	
1,1-Dichloropropene	ug/L	ND	20	19.9	100	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	17.0	85	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	18.5	92	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	17.3	87	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	18.3	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	18.2	91	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	19.4	97	70-130	
1,2-Dichloroethane	ug/L	ND	20	19.8	99	70-130	
1,2-Dichloropropane	ug/L	ND	20	20.5	102	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	19.4	97	70-130	
1,3-Dichloropropane	ug/L	ND	20	18.1	90	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	19.2	96	70-130	
2,2-Dichloropropane	ug/L	ND	20	21.1	106	70-130	
2-Butanone (MEK)	ug/L	ND	40	33.9	85	70-130	
2-Chlorotoluene	ug/L	ND	20	19.6	98	70-130	
2-Hexanone	ug/L	ND	40	35.2	88	70-130	
4-Chlorotoluene	ug/L	ND	20	19.2	96	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	37.6	94	70-130	
Acetone	ug/L	ND	40	43.4	109	70-130	
Benzene	ug/L	ND	20	20.9	104	70-148	
Bromobenzene	ug/L	ND	20	19.8	99	70-130	
Bromochloromethane	ug/L	ND	20	21.2	106	70-130	
Bromodichloromethane	ug/L	ND	20	20.5	102	70-130	
Bromoform	ug/L	ND	20	16.1	81	70-130	
Bromomethane	ug/L	ND	20	16.2	81	70-130	
Carbon tetrachloride	ug/L	ND	20	21.1	105	70-130	
Chlorobenzene	ug/L	ND	20	20.2	101	70-146	
Chloroethane	ug/L	ND	20	20.2	101	70-130	
Chloroform	ug/L	ND	20	21.3	102	70-130	
Chloromethane	ug/L	ND	20	18.4	92	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	20.7	103	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.6	98	70-130	
Dibromochloromethane	ug/L	ND	20	17.5	88	70-130	
Dibromomethane	ug/L	ND	20	20.1	101	70-130	
Dichlorodifluoromethane	ug/L	ND	20	23.5	117	70-130	
Diisopropyl ether	ug/L	ND	20	16.8	84	70-130	
Ethylbenzene	ug/L	ND	20	20.7	104	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	13.8	69	70-130	MO
m&p-Xylene	ug/L	ND	40	42.2	105	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	16.8	84	70-130	
Methylene Chloride	ug/L	ND	20	19.2	96	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

MATRIX SPIKE SAMPLE: 2293251		92386848013	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	ND	20	18.1	91	70-130	
o-Xylene	ug/L	ND	20	20.4	102	70-130	
p-Isopropyltoluene	ug/L	ND	20	17.6	88	70-130	
Styrene	ug/L	ND	20	20.4	102	70-130	
Tetrachloroethene	ug/L	2.3	20	21.4	96	70-130	
Toluene	ug/L	ND	20	22.4	112	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	20.0	100	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	18.1	90	70-130	
Trichloroethene	ug/L	ND	20	20.5	103	69-151	
Trichlorofluoromethane	ug/L	ND	20	23.8	119	70-130	
Vinyl acetate	ug/L	ND	40	36.1	90	70-130	
Vinyl chloride	ug/L	ND	20	22.2	111	70-130	
Xylene (Total)	ug/L	ND	60	62.5	104	70-130	
1,2-Dichloroethane-d4 (S)	%				104	70-130	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				104	70-130	

SAMPLE DUPLICATE: 2293250

Parameter	Units	92386883003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	11.5	10.4	10	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	.34J		30	
1,1-Dichloroethane	ug/L	27.1	24.6	10	30	
1,1-Dichloroethene	ug/L	188	157	18	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	1.8	1.7	3	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	

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QUALITY CONTROL DATA

Project: Kop FLEx

Pace Project No.: 92386883

SAMPLE DUPLICATE: 2293250

Parameter	Units	92386883003 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	ND		30	
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	.25J		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	3.4	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	.6J		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)	%	88	84	5		
4-Bromofluorobenzene (S)	%	102	102	0		
Toluene-d8 (S)	%	122	114	7		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

QC Batch: 413766 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92386883001, 92386883008, 92386883016, 92386883017, 92386883020

METHOD BLANK: 2294397 Matrix: Water
Associated Lab Samples: 92386883001, 92386883008, 92386883016, 92386883017, 92386883020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/05/18 01:56	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/05/18 01:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/05/18 01:56	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/05/18 01:56	
1,1-Dichloroethane	ug/L	ND	1.0	06/05/18 01:56	
1,1-Dichloroethene	ug/L	ND	1.0	06/05/18 01:56	
1,1-Dichloropropene	ug/L	ND	1.0	06/05/18 01:56	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/05/18 01:56	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/05/18 01:56	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/05/18 01:56	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/05/18 01:56	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/05/18 01:56	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/05/18 01:56	
1,2-Dichloroethane	ug/L	ND	1.0	06/05/18 01:56	
1,2-Dichloropropane	ug/L	ND	1.0	06/05/18 01:56	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/05/18 01:56	
1,3-Dichloropropane	ug/L	ND	1.0	06/05/18 01:56	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/05/18 01:56	
2,2-Dichloropropane	ug/L	ND	1.0	06/05/18 01:56	
2-Butanone (MEK)	ug/L	ND	5.0	06/05/18 01:56	
2-Chlorotoluene	ug/L	ND	1.0	06/05/18 01:56	
2-Hexanone	ug/L	ND	5.0	06/05/18 01:56	
4-Chlorotoluene	ug/L	ND	1.0	06/05/18 01:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/05/18 01:56	
Acetone	ug/L	ND	25.0	06/05/18 01:56	
Benzene	ug/L	ND	1.0	06/05/18 01:56	
Bromobenzene	ug/L	ND	1.0	06/05/18 01:56	
Bromochloromethane	ug/L	ND	1.0	06/05/18 01:56	
Bromodichloromethane	ug/L	ND	1.0	06/05/18 01:56	
Bromoform	ug/L	ND	1.0	06/05/18 01:56	
Bromomethane	ug/L	ND	2.0	06/05/18 01:56	
Carbon tetrachloride	ug/L	ND	1.0	06/05/18 01:56	
Chlorobenzene	ug/L	ND	1.0	06/05/18 01:56	
Chloroethane	ug/L	ND	1.0	06/05/18 01:56	
Chloroform	ug/L	2.4	1.0	06/05/18 01:56	
Chloromethane	ug/L	ND	1.0	06/05/18 01:56	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/05/18 01:56	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/05/18 01:56	
Dibromochloromethane	ug/L	ND	1.0	06/05/18 01:56	
Dibromomethane	ug/L	ND	1.0	06/05/18 01:56	
Dichlorodifluoromethane	ug/L	ND	1.0	06/05/18 01:56	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

METHOD BLANK: 2294397

Matrix: Water

Associated Lab Samples: 92386883001, 92386883008, 92386883016, 92386883017, 92386883020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	06/05/18 01:56	
Ethylbenzene	ug/L	ND	1.0	06/05/18 01:56	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/05/18 01:56	
m&p-Xylene	ug/L	ND	2.0	06/05/18 01:56	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/05/18 01:56	
Methylene Chloride	ug/L	ND	2.0	06/05/18 01:56	
Naphthalene	ug/L	ND	1.0	06/05/18 01:56	
o-Xylene	ug/L	ND	1.0	06/05/18 01:56	
p-Isopropyltoluene	ug/L	ND	1.0	06/05/18 01:56	
Styrene	ug/L	ND	1.0	06/05/18 01:56	
Tetrachloroethene	ug/L	ND	1.0	06/05/18 01:56	
Toluene	ug/L	ND	1.0	06/05/18 01:56	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/05/18 01:56	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/05/18 01:56	
Trichloroethene	ug/L	ND	1.0	06/05/18 01:56	
Trichlorofluoromethane	ug/L	ND	1.0	06/05/18 01:56	
Vinyl acetate	ug/L	ND	2.0	06/05/18 01:56	
Vinyl chloride	ug/L	ND	1.0	06/05/18 01:56	
Xylene (Total)	ug/L	ND	1.0	06/05/18 01:56	
1,2-Dichloroethane-d4 (S)	%	102	70-130	06/05/18 01:56	
4-Bromofluorobenzene (S)	%	102	70-130	06/05/18 01:56	
Toluene-d8 (S)	%	103	70-130	06/05/18 01:56	

LABORATORY CONTROL SAMPLE: 2294398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.7	91	80-125	
1,1,1-Trichloroethane	ug/L	50	47.5	95	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	43.5	87	79-124	
1,1,2-Trichloroethane	ug/L	50	45.8	92	85-125	
1,1-Dichloroethane	ug/L	50	44.8	90	73-126	
1,1-Dichloroethene	ug/L	50	47.0	94	66-135	
1,1-Dichloropropene	ug/L	50	49.1	98	74-135	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	73-135	
1,2,3-Trichloropropane	ug/L	50	44.6	89	75-130	
1,2,4-Trichlorobenzene	ug/L	50	44.1	88	75-134	
1,2-Dibromo-3-chloropropane	ug/L	50	40.0	80	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	45.4	91	83-124	
1,2-Dichlorobenzene	ug/L	50	46.2	92	80-133	
1,2-Dichloroethane	ug/L	50	44.3	89	67-128	
1,2-Dichloropropane	ug/L	50	45.9	92	75-132	
1,3-Dichlorobenzene	ug/L	50	45.4	91	77-130	
1,3-Dichloropropane	ug/L	50	48.2	96	76-131	
1,4-Dichlorobenzene	ug/L	50	46.5	93	78-130	

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QUALITY CONTROL DATA

Project: Kop FLEx

Pace Project No.: 92386883

LABORATORY CONTROL SAMPLE: 2294398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	41.5	83	40-160	
2-Butanone (MEK)	ug/L	100	85.6	86	61-144	
2-Chlorotoluene	ug/L	50	45.1	90	74-132	
2-Hexanone	ug/L	100	76.1	76	68-143	
4-Chlorotoluene	ug/L	50	44.5	89	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	79.8	80	72-135	
Acetone	ug/L	100	88.9	89	48-146	
Benzene	ug/L	50	45.8	92	80-125	
Bromobenzene	ug/L	50	46.4	93	75-125	
Bromochloromethane	ug/L	50	46.9	94	71-125	
Bromodichloromethane	ug/L	50	43.1	86	78-124	
Bromoform	ug/L	50	40.3	81	71-128	
Bromomethane	ug/L	50	37.6	75	40-160	
Carbon tetrachloride	ug/L	50	43.2	86	69-131	
Chlorobenzene	ug/L	50	45.4	91	81-122	
Chloroethane	ug/L	50	34.6	69	39-148	
Chloroform	ug/L	50	47.8	96	73-127	
Chloromethane	ug/L	50	35.8	72	44-146	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	74-124	
cis-1,3-Dichloropropene	ug/L	50	45.0	90	72-132	
Dibromochloromethane	ug/L	50	44.0	88	78-125	
Dibromomethane	ug/L	50	44.1	88	82-120	
Dichlorodifluoromethane	ug/L	50	35.7	71	34-157	
Diisopropyl ether	ug/L	50	47.5	95	69-135	
Ethylbenzene	ug/L	50	44.9	90	79-121	
Hexachloro-1,3-butadiene	ug/L	50	41.4	83	72-131	
m&p-Xylene	ug/L	100	90.1	90	81-124	
Methyl-tert-butyl ether	ug/L	50	46.7	93	74-131	
Methylene Chloride	ug/L	50	42.6	85	64-133	
Naphthalene	ug/L	50	44.5	89	73-133	
o-Xylene	ug/L	50	46.2	92	79-131	
p-Isopropyltoluene	ug/L	50	44.7	89	80-131	
Styrene	ug/L	50	43.9	88	84-126	
Tetrachloroethene	ug/L	50	44.1	88	78-122	
Toluene	ug/L	50	43.5	87	80-121	
trans-1,2-Dichloroethene	ug/L	50	45.7	91	71-127	
trans-1,3-Dichloropropene	ug/L	50	44.1	88	69-141	
Trichloroethene	ug/L	50	46.8	94	78-122	
Trichlorofluoromethane	ug/L	50	42.4	85	53-137	
Vinyl acetate	ug/L	100	96.9	97	40-160	
Vinyl chloride	ug/L	50	39.7	79	50-150	
Xylene (Total)	ug/L	150	136	91	81-126	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

MATRIX SPIKE SAMPLE:	2294400	92386883016	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	11.7	59	70-130	M1
1,1,1-Trichloroethane	ug/L	ND	20	14.0	70	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	12.2	61	70-130	M1
1,1,2-Trichloroethane	ug/L	ND	20	13.1	66	70-130	M1
1,1-Dichloroethane	ug/L	ND	20	12.7	64	70-130	M1
1,1-Dichloroethene	ug/L	ND	20	14.9	74	70-166	
1,1-Dichloropropene	ug/L	ND	20	13.7	69	70-130	M1
1,2,3-Trichlorobenzene	ug/L	ND	20	12.6	63	70-130	M1
1,2,3-Trichloropropane	ug/L	ND	20	12.8	64	70-130	M1
1,2,4-Trichlorobenzene	ug/L	ND	20	12.1	61	70-130	M1
1,2-Dibromo-3-chloropropane	ug/L	ND	20	10.9	54	70-130	M1
1,2-Dibromoethane (EDB)	ug/L	ND	20	12.6	63	70-130	M1
1,2-Dichlorobenzene	ug/L	ND	20	13.3	66	70-130	M1
1,2-Dichloroethane	ug/L	ND	20	13.4	67	70-130	M1
1,2-Dichloropropane	ug/L	ND	20	13.7	69	70-130	M1
1,3-Dichlorobenzene	ug/L	ND	20	13.2	66	70-130	M1
1,3-Dichloropropane	ug/L	ND	20	13.1	65	70-130	M1
1,4-Dichlorobenzene	ug/L	ND	20	13.0	65	70-130	M1
2,2-Dichloropropane	ug/L	ND	20	11.9	60	70-130	M1
2-Butanone (MEK)	ug/L	ND	40	25.7	64	70-130	M1
2-Chlorotoluene	ug/L	ND	20	13.1	65	70-130	M1
2-Hexanone	ug/L	ND	40	24.5	61	70-130	M1
4-Chlorotoluene	ug/L	ND	20	13.2	66	70-130	M1
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	24.7	62	70-130	M1
Acetone	ug/L	ND	40	29.7	74	70-130	
Benzene	ug/L	ND	20	13.9	69	70-148	M1
Bromobenzene	ug/L	ND	20	13.2	66	70-130	M1
Bromochloromethane	ug/L	ND	20	13.8	69	70-130	M1
Bromodichloromethane	ug/L	ND	20	12.5	63	70-130	M1
Bromoform	ug/L	ND	20	9.6	48	70-130	M1
Bromomethane	ug/L	ND	20	8.9	44	70-130	M1
Carbon tetrachloride	ug/L	ND	20	13.2	66	70-130	M1
Chlorobenzene	ug/L	ND	20	13.4	67	70-146	M1
Chloroethane	ug/L	ND	20	11.2	56	70-130	M1
Chloroform	ug/L	ND	20	13.8	69	70-130	M1
Chloromethane	ug/L	ND	20	8.9	44	70-130	M1
cis-1,2-Dichloroethene	ug/L	ND	20	13.7	68	70-130	M1
cis-1,3-Dichloropropene	ug/L	ND	20	12.2	61	70-130	M1
Dibromochloromethane	ug/L	ND	20	11.0	55	70-130	M1
Dibromomethane	ug/L	ND	20	13.5	68	70-130	M1
Dichlorodifluoromethane	ug/L	ND	20	12.5	62	70-130	M1
Diisopropyl ether	ug/L	ND	20	12.0	60	70-130	M1
Ethylbenzene	ug/L	ND	20	13.3	67	70-130	M1
Hexachloro-1,3-butadiene	ug/L	ND	20	12.3	61	70-130	M1
m&p-Xylene	ug/L	ND	40	27.3	68	70-130	M1
Methyl-tert-butyl ether	ug/L	ND	20	13.8	65	70-130	M1
Methylene Chloride	ug/L	ND	20	6.7	33	70-130	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

MATRIX SPIKE SAMPLE: 2294400		92386883016	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	ND	20	12.3	62	70-130	M1
o-Xylene	ug/L	ND	20	13.6	68	70-130	M1
p-Isopropyltoluene	ug/L	ND	20	12.7	64	70-130	M1
Styrene	ug/L	ND	20	12.8	64	70-130	M1
Tetrachloroethene	ug/L	ND	20	12.8	64	70-130	M1
Toluene	ug/L	ND	20	13.5	67	70-155	M1
trans-1,2-Dichloroethene	ug/L	ND	20	14.1	71	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	12.0	60	70-130	M1
Trichloroethene	ug/L	ND	20	14.3	72	69-151	
Trichlorofluoromethane	ug/L	ND	20	14.0	70	70-130	
Vinyl acetate	ug/L	ND	40	26.1	65	70-130	M1
Vinyl chloride	ug/L	ND	20	12.2	61	70-130	M1
Xylene (Total)	ug/L	ND	60	40.9	68	70-130	MS
1,2-Dichloroethane-d4 (S)	%				95	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2294399

Parameter	Units	92386883008 Result	Dup Result	RPD	Max RPD	Qualifiers
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	

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QUALITY CONTROL DATA

Project: Kop FLEx

Pace Project No.: 92386883

SAMPLE DUPLICATE: 2294399

Parameter	Units	92386883008 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	ND		30	
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	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	103	104	1		
4-Bromofluorobenzene (S)	%	102	101	1		
Toluene-d8 (S)	%	102	104	2		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

QC Batch: 413923 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92386883019, 92386883022, 92386883023, 92386883024, 92386883025, 92386883026, 92386883027, 92386883028, 92386883029

METHOD BLANK: 2295305 Matrix: Water
Associated Lab Samples: 92386883019, 92386883022, 92386883023, 92386883024, 92386883025, 92386883026, 92386883027, 92386883028, 92386883029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/06/18 03:40	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/06/18 03:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/06/18 03:40	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/06/18 03:40	
1,1-Dichloroethane	ug/L	ND	1.0	06/06/18 03:40	
1,1-Dichloroethene	ug/L	ND	1.0	06/06/18 03:40	
1,1-Dichloropropene	ug/L	ND	1.0	06/06/18 03:40	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/06/18 03:40	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/06/18 03:40	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/06/18 03:40	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/06/18 03:40	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/06/18 03:40	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/06/18 03:40	
1,2-Dichloroethane	ug/L	ND	1.0	06/06/18 03:40	
1,2-Dichloropropane	ug/L	ND	1.0	06/06/18 03:40	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/06/18 03:40	
1,3-Dichloropropane	ug/L	ND	1.0	06/06/18 03:40	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/06/18 03:40	
2,2-Dichloropropane	ug/L	ND	1.0	06/06/18 03:40	
2-Butanone (MEK)	ug/L	ND	5.0	06/06/18 03:40	
2-Chlorotoluene	ug/L	ND	1.0	06/06/18 03:40	
2-Hexanone	ug/L	ND	5.0	06/06/18 03:40	
4-Chlorotoluene	ug/L	ND	1.0	06/06/18 03:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/06/18 03:40	
Acetone	ug/L	ND	25.0	06/06/18 03:40	
Benzene	ug/L	ND	1.0	06/06/18 03:40	
Bromobenzene	ug/L	ND	1.0	06/06/18 03:40	
Bromochloromethane	ug/L	ND	1.0	06/06/18 03:40	
Bromodichloromethane	ug/L	ND	1.0	06/06/18 03:40	
Bromoform	ug/L	ND	1.0	06/06/18 03:40	
Bromomethane	ug/L	ND	2.0	06/06/18 03:40	
Carbon tetrachloride	ug/L	ND	1.0	06/06/18 03:40	
Chlorobenzene	ug/L	ND	1.0	06/06/18 03:40	
Chloroethane	ug/L	ND	1.0	06/06/18 03:40	
Chloroform	ug/L	ND	1.0	06/06/18 03:40	
Chloromethane	ug/L	ND	1.0	06/06/18 03:40	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/06/18 03:40	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/06/18 03:40	
Dibromochloromethane	ug/L	ND	1.0	06/06/18 03:40	
Dibromomethane	ug/L	ND	1.0	06/06/18 03:40	

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

METHOD BLANK: 2295305

Matrix: Water

Associated Lab Samples: 92386883019, 92386883022, 92386883023, 92386883024, 92386883025, 92386883026, 92386883027, 92386883028, 92386883029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	06/06/18 03:40	
Diisopropyl ether	ug/L	ND	1.0	06/06/18 03:40	
Ethylbenzene	ug/L	ND	1.0	06/06/18 03:40	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/06/18 03:40	
m&p-Xylene	ug/L	ND	2.0	06/06/18 03:40	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/06/18 03:40	
Methylene Chloride	ug/L	ND	2.0	06/06/18 03:40	
Naphthalene	ug/L	ND	1.0	06/06/18 03:40	
o-Xylene	ug/L	ND	1.0	06/06/18 03:40	
p-Isopropyltoluene	ug/L	ND	1.0	06/06/18 03:40	
Styrene	ug/L	ND	1.0	06/06/18 03:40	
Tetrachloroethene	ug/L	ND	1.0	06/06/18 03:40	
Toluene	ug/L	ND	1.0	06/06/18 03:40	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/06/18 03:40	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/06/18 03:40	
Trichloroethene	ug/L	ND	1.0	06/06/18 03:40	
Trichlorofluoromethane	ug/L	ND	1.0	06/06/18 03:40	
Vinyl acetate	ug/L	ND	2.0	06/06/18 03:40	
Vinyl chloride	ug/L	ND	1.0	06/06/18 03:40	
Xylene (Total)	ug/L	ND	1.0	06/06/18 03:40	
1,2-Dichloroethane-d4 (S)	%	90	70-130	06/06/18 03:40	
4-Bromofluorobenzene (S)	%	104	70-130	06/06/18 03:40	
Toluene-d8 (S)	%	114	70-130	06/06/18 03:40	

LABORATORY CONTROL SAMPLE: 2295306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.6	95	80-125	
1,1,1-Trichloroethane	ug/L	50	52.8	106	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	46.1	92	79-124	
1,1,2-Trichloroethane	ug/L	50	48.1	96	85-125	
1,1-Dichloroethane	ug/L	50	46.1	92	73-126	
1,1-Dichloroethene	ug/L	50	51.5	103	66-135	
1,1-Dichloropropene	ug/L	50	49.3	99	74-135	
1,2,3-Trichlorobenzene	ug/L	50	42.4	85	73-135	
1,2,3-Trichloropropane	ug/L	50	47.2	94	75-130	
1,2,4-Trichlorobenzene	ug/L	50	43.5	87	75-134	
1,2-Dibromo-3-chloropropane	ug/L	50	46.3	93	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	50.6	101	83-124	
1,2-Dichlorobenzene	ug/L	50	47.5	95	80-133	
1,2-Dichloroethane	ug/L	50	50.9	102	67-128	
1,2-Dichloropropane	ug/L	50	49.9	100	75-132	
1,3-Dichlorobenzene	ug/L	50	46.5	93	77-130	

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QUALITY CONTROL DATA

Project: Kop FLEx

Pace Project No.: 92386883

LABORATORY CONTROL SAMPLE: 2295306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	50.7	101	76-131	
1,4-Dichlorobenzene	ug/L	50	46.2	92	78-130	
2,2-Dichloropropane	ug/L	50	45.3	91	40-160	
2-Butanone (MEK)	ug/L	100	93.8	94	61-144	
2-Chlorotoluene	ug/L	50	45.8	92	74-132	
2-Hexanone	ug/L	100	89.8	90	68-143	
4-Chlorotoluene	ug/L	50	46.0	92	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.5	91	72-135	
Acetone	ug/L	100	111	111	48-146	
Benzene	ug/L	50	48.8	98	80-125	
Bromobenzene	ug/L	50	46.7	93	75-125	
Bromochloromethane	ug/L	50	50.7	101	71-125	
Bromodichloromethane	ug/L	50	47.2	94	78-124	
Bromoform	ug/L	50	41.1	82	71-128	
Bromomethane	ug/L	50	32.9	66	40-160	
Carbon tetrachloride	ug/L	50	48.2	96	69-131	
Chlorobenzene	ug/L	50	46.1	92	81-122	
Chloroethane	ug/L	50	37.9	76	39-148	
Chloroform	ug/L	50	53.4	107	73-127	
Chloromethane	ug/L	50	39.7	79	44-146	
cis-1,2-Dichloroethene	ug/L	50	48.0	96	74-124	
cis-1,3-Dichloropropene	ug/L	50	48.5	97	72-132	
Dibromochloromethane	ug/L	50	47.4	95	78-125	
Dibromomethane	ug/L	50	47.6	95	82-120	
Dichlorodifluoromethane	ug/L	50	47.8	96	34-157	
Diisopropyl ether	ug/L	50	44.8	90	69-135	
Ethylbenzene	ug/L	50	46.2	92	79-121	
Hexachloro-1,3-butadiene	ug/L	50	35.3	71	72-131 L2	
m&p-Xylene	ug/L	100	93.2	93	81-124	
Methyl-tert-butyl ether	ug/L	50	45.0	90	74-131	
Methylene Chloride	ug/L	50	49.9	100	64-133	
Naphthalene	ug/L	50	47.5	95	73-133	
o-Xylene	ug/L	50	47.6	95	79-131	
p-Isopropyltoluene	ug/L	50	41.5	83	80-131	
Styrene	ug/L	50	45.5	91	84-126	
Tetrachloroethene	ug/L	50	44.7	89	78-122	
Toluene	ug/L	50	49.0	98	80-121	
trans-1,2-Dichloroethene	ug/L	50	46.1	92	71-127	
trans-1,3-Dichloropropene	ug/L	50	48.0	96	69-141	
Trichloroethene	ug/L	50	49.2	98	78-122	
Trichlorofluoromethane	ug/L	50	45.2	90	53-137	
Vinyl acetate	ug/L	100	101	101	40-160	
Vinyl chloride	ug/L	50	45.9	92	50-150	
Xylene (Total)	ug/L	150	141	94	81-126	
1,2-Dichloroethane-d4 (S)	%			109	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

MATRIX SPIKE SAMPLE:	2296625	92386883023	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.3	97	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	22.2	111	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.5	97	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.5	103	70-130	
1,1-Dichloroethane	ug/L	4.3	20	23.9	98	70-130	
1,1-Dichloroethene	ug/L	ND	20	22.0	110	70-166	
1,1-Dichloropropene	ug/L	ND	20	19.7	99	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	17.8	89	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	20.4	102	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.1	90	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	18.8	94	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.2	101	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	20.7	104	70-130	
1,2-Dichloroethane	ug/L	ND	20	21.4	107	70-130	
1,2-Dichloropropane	ug/L	ND	20	20.8	104	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	20.2	101	70-130	
1,3-Dichloropropane	ug/L	ND	20	20.5	102	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	19.9	99	70-130	
2,2-Dichloropropane	ug/L	ND	20	19.2	96	70-130	
2-Butanone (MEK)	ug/L	ND	40	40.2	101	70-130	
2-Chlorotoluene	ug/L	ND	20	21.4	107	70-130	
2-Hexanone	ug/L	ND	40	39.3	98	70-130	
4-Chlorotoluene	ug/L	ND	20	21.1	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	41.1	103	70-130	
Acetone	ug/L	ND	40	44.2	111	70-130	
Benzene	ug/L	ND	20	21.5	108	70-148	
Bromobenzene	ug/L	ND	20	21.1	106	70-130	
Bromochloromethane	ug/L	ND	20	22.8	114	70-130	
Bromodichloromethane	ug/L	ND	20	19.7	98	70-130	
Bromoform	ug/L	ND	20	15.8	79	70-130	
Bromomethane	ug/L	ND	20	9.4	47	70-130	M1
Carbon tetrachloride	ug/L	ND	20	20.2	101	70-130	
Chlorobenzene	ug/L	ND	20	20.6	103	70-146	
Chloroethane	ug/L	ND	20	16.3	81	70-130	
Chloroform	ug/L	ND	20	20.3	102	70-130	
Chloromethane	ug/L	ND	20	12.9	64	70-130	M1
cis-1,2-Dichloroethene	ug/L	ND	20	21.0	105	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	20.3	101	70-130	
Dibromochloromethane	ug/L	ND	20	17.5	88	70-130	
Dibromomethane	ug/L	ND	20	20.4	102	70-130	
Dichlorodifluoromethane	ug/L	ND	20	11.1	55	70-130	M1
Diisopropyl ether	ug/L	ND	20	19.7	98	70-130	
Ethylbenzene	ug/L	ND	20	20.6	103	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	15.0	75	70-130	
m&p-Xylene	ug/L	ND	40	42.1	105	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	17.9	90	70-130	
Methylene Chloride	ug/L	ND	20	19.2	96	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

MATRIX SPIKE SAMPLE: 2296625		92386883023	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	ND	20	20.0	100	70-130	
o-Xylene	ug/L	ND	20	21.4	107	70-130	
p-Isopropyltoluene	ug/L	ND	20	19.3	97	70-130	
Styrene	ug/L	ND	20	20.0	100	70-130	
Tetrachloroethene	ug/L	ND	20	19.0	95	70-130	
Toluene	ug/L	ND	20	22.2	111	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	19.7	98	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	18.6	93	70-130	
Trichloroethene	ug/L	ND	20	20.2	101	69-151	
Trichlorofluoromethane	ug/L	ND	20	20.6	103	70-130	
Vinyl acetate	ug/L	ND	40	37.8	94	70-130	
Vinyl chloride	ug/L	ND	20	16.9	84	70-130	
Xylene (Total)	ug/L	ND	60	63.4	106	70-130	
1,2-Dichloroethane-d4 (S)	%				105	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2296624

Parameter	Units	92386883022	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	6.1	5.9	3	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	1.9	2.0	3	30	
1,1-Dichloroethene	ug/L	2.6	2.4	8	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	

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QUALITY CONTROL DATA

Project: Kop FLEx

Pace Project No.: 92386883

SAMPLE DUPLICATE: 2296624

Parameter	Units	92386883022 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	ND		30	
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	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	87	97	10		
4-Bromofluorobenzene (S)	%	100	103	3		
Toluene-d8 (S)	%	116	113	3		

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

QC Batch: 414141 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92386883005, 92386883006, 92386883007, 92386883009, 92386883010, 92386883012, 92386883013, 92386883014, 92386883018

METHOD BLANK: 2296614 Matrix: Water
Associated Lab Samples: 92386883005, 92386883006, 92386883007, 92386883009, 92386883010, 92386883012, 92386883013, 92386883014, 92386883018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/07/18 03:06	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/07/18 03:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/07/18 03:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/07/18 03:06	
1,1-Dichloroethane	ug/L	ND	1.0	06/07/18 03:06	
1,1-Dichloroethene	ug/L	ND	1.0	06/07/18 03:06	
1,1-Dichloropropene	ug/L	ND	1.0	06/07/18 03:06	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/07/18 03:06	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/07/18 03:06	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/07/18 03:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/07/18 03:06	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/07/18 03:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/07/18 03:06	
1,2-Dichloroethane	ug/L	ND	1.0	06/07/18 03:06	
1,2-Dichloropropane	ug/L	ND	1.0	06/07/18 03:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/07/18 03:06	
1,3-Dichloropropane	ug/L	ND	1.0	06/07/18 03:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/07/18 03:06	
2,2-Dichloropropane	ug/L	ND	1.0	06/07/18 03:06	
2-Butanone (MEK)	ug/L	ND	5.0	06/07/18 03:06	
2-Chlorotoluene	ug/L	ND	1.0	06/07/18 03:06	
2-Hexanone	ug/L	ND	5.0	06/07/18 03:06	
4-Chlorotoluene	ug/L	ND	1.0	06/07/18 03:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/07/18 03:06	
Acetone	ug/L	ND	25.0	06/07/18 03:06	
Benzene	ug/L	ND	1.0	06/07/18 03:06	
Bromobenzene	ug/L	ND	1.0	06/07/18 03:06	
Bromochloromethane	ug/L	ND	1.0	06/07/18 03:06	
Bromodichloromethane	ug/L	ND	1.0	06/07/18 03:06	
Bromoform	ug/L	ND	1.0	06/07/18 03:06	
Bromomethane	ug/L	ND	2.0	06/07/18 03:06	
Carbon tetrachloride	ug/L	ND	1.0	06/07/18 03:06	
Chlorobenzene	ug/L	ND	1.0	06/07/18 03:06	
Chloroethane	ug/L	ND	1.0	06/07/18 03:06	
Chloroform	ug/L	ND	1.0	06/07/18 03:06	
Chloromethane	ug/L	ND	1.0	06/07/18 03:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/07/18 03:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/07/18 03:06	
Dibromochloromethane	ug/L	ND	1.0	06/07/18 03:06	
Dibromomethane	ug/L	ND	1.0	06/07/18 03:06	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

METHOD BLANK: 2296614

Matrix: Water

Associated Lab Samples: 92386883005, 92386883006, 92386883007, 92386883009, 92386883010, 92386883012, 92386883013, 92386883014, 92386883018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	06/07/18 03:06	
Diisopropyl ether	ug/L	ND	1.0	06/07/18 03:06	
Ethylbenzene	ug/L	ND	1.0	06/07/18 03:06	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/07/18 03:06	
m&p-Xylene	ug/L	ND	2.0	06/07/18 03:06	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/07/18 03:06	
Methylene Chloride	ug/L	ND	2.0	06/07/18 03:06	
Naphthalene	ug/L	ND	1.0	06/07/18 03:06	
o-Xylene	ug/L	ND	1.0	06/07/18 03:06	
p-Isopropyltoluene	ug/L	ND	1.0	06/07/18 03:06	
Styrene	ug/L	ND	1.0	06/07/18 03:06	
Tetrachloroethene	ug/L	ND	1.0	06/07/18 03:06	
Toluene	ug/L	ND	1.0	06/07/18 03:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/07/18 03:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/07/18 03:06	
Trichloroethene	ug/L	ND	1.0	06/07/18 03:06	
Trichlorofluoromethane	ug/L	ND	1.0	06/07/18 03:06	
Vinyl acetate	ug/L	ND	2.0	06/07/18 03:06	
Vinyl chloride	ug/L	ND	1.0	06/07/18 03:06	
Xylene (Total)	ug/L	ND	1.0	06/07/18 03:06	
1,2-Dichloroethane-d4 (S)	%	92	70-130	06/07/18 03:06	
4-Bromofluorobenzene (S)	%	99	70-130	06/07/18 03:06	
Toluene-d8 (S)	%	113	70-130	06/07/18 03:06	

LABORATORY CONTROL SAMPLE: 2296615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.0	98	80-125	
1,1,1-Trichloroethane	ug/L	50	58.8	118	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	46.2	92	79-124	
1,1,2-Trichloroethane	ug/L	50	54.3	109	85-125	
1,1-Dichloroethane	ug/L	50	48.1	96	73-126	
1,1-Dichloroethene	ug/L	50	57.6	115	66-135	
1,1-Dichloropropene	ug/L	50	55.5	111	74-135	
1,2,3-Trichlorobenzene	ug/L	50	45.3	91	73-135	
1,2,3-Trichloropropane	ug/L	50	46.7	93	75-130	
1,2,4-Trichlorobenzene	ug/L	50	45.5	91	75-134	
1,2-Dibromo-3-chloropropane	ug/L	50	47.4	95	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	52.1	104	83-124	
1,2-Dichlorobenzene	ug/L	50	50.7	101	80-133	
1,2-Dichloroethane	ug/L	50	57.0	114	67-128	
1,2-Dichloropropane	ug/L	50	56.5	113	75-132	
1,3-Dichlorobenzene	ug/L	50	49.0	98	77-130	

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QUALITY CONTROL DATA

Project: Kop FLEx

Pace Project No.: 92386883

LABORATORY CONTROL SAMPLE: 2296615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	52.4	105	76-131	
1,4-Dichlorobenzene	ug/L	50	49.8	100	78-130	
2,2-Dichloropropane	ug/L	50	51.2	102	40-160	
2-Butanone (MEK)	ug/L	100	97.5	97	61-144	
2-Chlorotoluene	ug/L	50	51.9	104	74-132	
2-Hexanone	ug/L	100	86.7	87	68-143	
4-Chlorotoluene	ug/L	50	50.3	101	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	101	101	72-135	
Acetone	ug/L	100	111	111	48-146	
Benzene	ug/L	50	53.0	106	80-125	
Bromobenzene	ug/L	50	50.3	101	75-125	
Bromochloromethane	ug/L	50	57.0	114	71-125	
Bromodichloromethane	ug/L	50	52.9	106	78-124	
Bromoform	ug/L	50	41.4	83	71-128	
Bromomethane	ug/L	50	38.8	78	40-160	
Carbon tetrachloride	ug/L	50	54.2	108	69-131	
Chlorobenzene	ug/L	50	47.2	94	81-122	
Chloroethane	ug/L	50	43.9	88	39-148	
Chloroform	ug/L	50	58.6	117	73-127	
Chloromethane	ug/L	50	46.3	93	44-146	
cis-1,2-Dichloroethene	ug/L	50	54.0	108	74-124	
cis-1,3-Dichloropropene	ug/L	50	55.0	110	72-132	
Dibromochloromethane	ug/L	50	48.1	96	78-125	
Dibromomethane	ug/L	50	51.4	103	82-120	
Dichlorodifluoromethane	ug/L	50	59.6	119	34-157	
Diisopropyl ether	ug/L	50	48.7	97	69-135	
Ethylbenzene	ug/L	50	47.8	96	79-121	
Hexachloro-1,3-butadiene	ug/L	50	36.6	73	72-131	
m&p-Xylene	ug/L	100	95.5	95	81-124	
Methyl-tert-butyl ether	ug/L	50	49.3	99	74-131	
Methylene Chloride	ug/L	50	56.7	113	64-133	
Naphthalene	ug/L	50	49.7	99	73-133	
o-Xylene	ug/L	50	47.4	95	79-131	
p-Isopropyltoluene	ug/L	50	46.2	92	80-131	
Styrene	ug/L	50	46.8	94	84-126	
Tetrachloroethene	ug/L	50	45.7	91	78-122	
Toluene	ug/L	50	54.0	108	80-121	
trans-1,2-Dichloroethene	ug/L	50	50.8	102	71-127	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	69-141	
Trichloroethene	ug/L	50	54.7	109	78-122	
Trichlorofluoromethane	ug/L	50	53.8	108	53-137	
Vinyl acetate	ug/L	100	109	109	40-160	
Vinyl chloride	ug/L	50	54.5	109	50-150	
Xylene (Total)	ug/L	150	143	95	81-126	
1,2-Dichloroethane-d4 (S)	%			112	70-130	
4-Bromofluorobenzene (S)	%			92	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

Parameter	Units	2296616		2296617		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
1,1,1,2-Tetrachloroethane	ug/L	ND	1000	1000	962	937	96	94	70-130	3	30		
1,1,1-Trichloroethane	ug/L	7360	1000	1000	10100	9820	275	246	70-130	3	30	E,M1	
1,1,2,2-Tetrachloroethane	ug/L	ND	1000	1000	999	956	100	96	70-130	4	30		
1,1,2-Trichloroethane	ug/L	ND	1000	1000	1050	984	105	98	70-130	7	30		
1,1-Dichloroethane	ug/L	6250	1000	1000	7530	7290	127	103	70-130	3	30		
1,1-Dichloroethene	ug/L	4690	1000	1000	6290	6130	159	144	70-166	2	30		
1,1-Dichloropropene	ug/L	ND	1000	1000	1130	999	113	100	70-130	12	30		
1,2,3-Trichlorobenzene	ug/L	ND	1000	1000	886	905	89	91	70-130	2	30		
1,2,3-Trichloropropane	ug/L	ND	1000	1000	1030	957	103	96	70-130	8	30		
1,2,4-Trichlorobenzene	ug/L	ND	1000	1000	874	883	87	88	70-130	1	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	1000	1000	991	921	99	92	70-130	7	30		
1,2-Dibromoethane (EDB)	ug/L	ND	1000	1000	1060	953	106	95	70-130	10	30		
1,2-Dichlorobenzene	ug/L	ND	1000	1000	1050	1070	105	107	70-130	2	30		
1,2-Dichloroethane	ug/L	ND	1000	1000	1190	1150	117	113	70-130	4	30		
1,2-Dichloropropane	ug/L	ND	1000	1000	1140	1070	114	107	70-130	6	30		
1,3-Dichlorobenzene	ug/L	ND	1000	1000	1040	1010	104	101	70-130	2	30		
1,3-Dichloropropane	ug/L	ND	1000	1000	1060	1010	106	101	70-130	4	30		
1,4-Dichlorobenzene	ug/L	ND	1000	1000	1050	980	105	98	70-130	7	30		
2,2-Dichloropropane	ug/L	ND	1000	1000	957	913	96	91	70-130	5	30		
2-Butanone (MEK)	ug/L	ND	2000	2000	1980	1940	99	97	70-130	2	30		
2-Chlorotoluene	ug/L	ND	1000	1000	1080	1050	108	105	70-130	3	30		
2-Hexanone	ug/L	ND	2000	2000	1980	1900	99	95	70-130	4	30		
4-Chlorotoluene	ug/L	ND	1000	1000	1050	1050	105	105	70-130	0	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	2000	2000	2130	2060	106	103	70-130	3	30		
Acetone	ug/L	ND	2000	2000	2260	2270	113	114	70-130	1	30		
Benzene	ug/L	ND	1000	1000	1080	1030	108	103	70-148	5	30		
Bromobenzene	ug/L	ND	1000	1000	1090	1040	109	104	70-130	5	30		
Bromochloromethane	ug/L	ND	1000	1000	1170	1150	117	115	70-130	2	30		
Bromodichloromethane	ug/L	ND	1000	1000	1100	1050	110	105	70-130	5	30		
Bromoform	ug/L	ND	1000	1000	842	767	84	77	70-130	9	30		
Bromomethane	ug/L	ND	1000	1000	626	628	63	63	70-130	0	30	M1	
Carbon tetrachloride	ug/L	ND	1000	1000	1180	1040	118	104	70-130	12	30		
Chlorobenzene	ug/L	ND	1000	1000	1070	1030	107	103	70-146	4	30		
Chloroethane	ug/L	249	1000	1000	1130	979	89	73	70-130	15	30		
Chloroform	ug/L	84.0	1000	1000	1200	1240	111	115	70-130	3	30		
Chloromethane	ug/L	ND	1000	1000	671	715	67	72	70-130	6	30	M1	
cis-1,2-Dichloroethene	ug/L	ND	1000	1000	1160	1100	113	106	70-130	6	30		
cis-1,3-Dichloropropene	ug/L	ND	1000	1000	1060	1010	106	101	70-130	5	30		
Dibromochloromethane	ug/L	ND	1000	1000	935	882	93	88	70-130	6	30		
Dibromomethane	ug/L	ND	1000	1000	1060	1050	106	105	70-130	1	30		
Dichlorodifluoromethane	ug/L	ND	1000	1000	626	587	63	59	70-130	6	30	M1	
Diisopropyl ether	ug/L	ND	1000	1000	1020	927	102	93	70-130	10	30		
Ethylbenzene	ug/L	ND	1000	1000	1120	1050	112	105	70-130	6	30		
Hexachloro-1,3-butadiene	ug/L	ND	1000	1000	750	744	75	74	70-130	1	30		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLEX
Pace Project No.: 92386883

Parameter	Units	2296616		2296617		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92386883005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
m&p-Xylene	ug/L	ND	2000	2000	2200	2130	110	106	70-130	3	30	
Methyl-tert-butyl ether	ug/L	ND	1000	1000	950	887	95	89	70-130	7	30	
Methylene Chloride	ug/L	ND	1000	1000	1200	1150	120	115	70-130	5	30	
Naphthalene	ug/L	ND	1000	1000	987	994	99	99	70-130	1	30	
o-Xylene	ug/L	ND	1000	1000	1120	1040	112	104	70-130	7	30	
p-Isopropyltoluene	ug/L	ND	1000	1000	980	977	98	98	70-130	0	30	
Styrene	ug/L	ND	1000	1000	1080	997	108	100	70-130	8	30	
Tetrachloroethene	ug/L	ND	1000	1000	1000	963	100	96	70-130	4	30	
Toluene	ug/L	ND	1000	1000	1170	1110	117	111	70-155	6	30	
trans-1,2-Dichloroethene	ug/L	ND	1000	1000	1080	979	108	98	70-130	10	30	
trans-1,3-Dichloropropene	ug/L	ND	1000	1000	1000	976	100	98	70-130	2	30	
Trichloroethene	ug/L	ND	1000	1000	1190	1160	114	112	69-151	2	30	
Trichlorofluoromethane	ug/L	ND	1000	1000	1100	1060	110	106	70-130	4	30	
Vinyl acetate	ug/L	ND	2000	2000	2130	2070	107	104	70-130	3	30	
Vinyl chloride	ug/L	ND	1000	1000	918	880	92	88	70-130	4	30	
Xylene (Total)	ug/L	ND	3000	3000	3320	3170	111	106	70-130	5	30	
1,2-Dichloroethane-d4 (S)	%						107	109	70-130			
4-Bromofluorobenzene (S)	%						99	94	70-130			
Toluene-d8 (S)	%						102	103	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

QC Batch: 414500 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92386883015, 92386883021

METHOD BLANK: 2298723 Matrix: Water
Associated Lab Samples: 92386883015, 92386883021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/08/18 12:58	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/08/18 12:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/08/18 12:58	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/08/18 12:58	
1,1-Dichloroethane	ug/L	ND	1.0	06/08/18 12:58	
1,1-Dichloroethene	ug/L	ND	1.0	06/08/18 12:58	
1,1-Dichloropropene	ug/L	ND	1.0	06/08/18 12:58	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/08/18 12:58	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/08/18 12:58	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/08/18 12:58	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/08/18 12:58	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/08/18 12:58	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/08/18 12:58	
1,2-Dichloroethane	ug/L	ND	1.0	06/08/18 12:58	
1,2-Dichloropropane	ug/L	ND	1.0	06/08/18 12:58	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/08/18 12:58	
1,3-Dichloropropane	ug/L	ND	1.0	06/08/18 12:58	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/08/18 12:58	
2,2-Dichloropropane	ug/L	ND	1.0	06/08/18 12:58	
2-Butanone (MEK)	ug/L	ND	5.0	06/08/18 12:58	
2-Chlorotoluene	ug/L	ND	1.0	06/08/18 12:58	
2-Hexanone	ug/L	ND	5.0	06/08/18 12:58	
4-Chlorotoluene	ug/L	ND	1.0	06/08/18 12:58	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/08/18 12:58	
Acetone	ug/L	ND	25.0	06/08/18 12:58	
Benzene	ug/L	ND	1.0	06/08/18 12:58	
Bromobenzene	ug/L	ND	1.0	06/08/18 12:58	
Bromochloromethane	ug/L	ND	1.0	06/08/18 12:58	
Bromodichloromethane	ug/L	ND	1.0	06/08/18 12:58	
Bromoform	ug/L	ND	1.0	06/08/18 12:58	
Bromomethane	ug/L	ND	2.0	06/08/18 12:58	
Carbon tetrachloride	ug/L	ND	1.0	06/08/18 12:58	
Chlorobenzene	ug/L	ND	1.0	06/08/18 12:58	
Chloroethane	ug/L	ND	1.0	06/08/18 12:58	
Chloroform	ug/L	ND	1.0	06/08/18 12:58	
Chloromethane	ug/L	ND	1.0	06/08/18 12:58	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/08/18 12:58	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/08/18 12:58	
Dibromochloromethane	ug/L	ND	1.0	06/08/18 12:58	
Dibromomethane	ug/L	ND	1.0	06/08/18 12:58	
Dichlorodifluoromethane	ug/L	ND	1.0	06/08/18 12:58	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

METHOD BLANK: 2298723 Matrix: Water

Associated Lab Samples: 92386883015, 92386883021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	06/08/18 12:58	
Ethylbenzene	ug/L	ND	1.0	06/08/18 12:58	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/08/18 12:58	
m&p-Xylene	ug/L	ND	2.0	06/08/18 12:58	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/08/18 12:58	
Methylene Chloride	ug/L	ND	2.0	06/08/18 12:58	
Naphthalene	ug/L	ND	1.0	06/08/18 12:58	
o-Xylene	ug/L	ND	1.0	06/08/18 12:58	
p-Isopropyltoluene	ug/L	ND	1.0	06/08/18 12:58	
Styrene	ug/L	ND	1.0	06/08/18 12:58	
Tetrachloroethene	ug/L	ND	1.0	06/08/18 12:58	
Toluene	ug/L	ND	1.0	06/08/18 12:58	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/08/18 12:58	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/08/18 12:58	
Trichloroethene	ug/L	ND	1.0	06/08/18 12:58	
Trichlorofluoromethane	ug/L	ND	1.0	06/08/18 12:58	
Vinyl acetate	ug/L	ND	2.0	06/08/18 12:58	
Vinyl chloride	ug/L	ND	1.0	06/08/18 12:58	
Xylene (Total)	ug/L	ND	1.0	06/08/18 12:58	
1,2-Dichloroethane-d4 (S)	%	103	70-130	06/08/18 12:58	
4-Bromofluorobenzene (S)	%	101	70-130	06/08/18 12:58	
Toluene-d8 (S)	%	107	70-130	06/08/18 12:58	

LABORATORY CONTROL SAMPLE: 2298724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.8	98	80-125	
1,1,1-Trichloroethane	ug/L	50	53.3	107	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	47.2	94	79-124	
1,1,2-Trichloroethane	ug/L	50	50.8	102	85-125	
1,1-Dichloroethane	ug/L	50	49.8	100	73-126	
1,1-Dichloroethene	ug/L	50	53.9	108	66-135	
1,1-Dichloropropene	ug/L	50	54.1	108	74-135	
1,2,3-Trichlorobenzene	ug/L	50	46.8	94	73-135	
1,2,3-Trichloropropane	ug/L	50	48.4	97	75-130	
1,2,4-Trichlorobenzene	ug/L	50	46.5	93	75-134	
1,2-Dibromo-3-chloropropane	ug/L	50	42.4	85	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	83-124	
1,2-Dichlorobenzene	ug/L	50	49.5	99	80-133	
1,2-Dichloroethane	ug/L	50	49.7	99	67-128	
1,2-Dichloropropane	ug/L	50	50.5	101	75-132	
1,3-Dichlorobenzene	ug/L	50	48.9	98	77-130	
1,3-Dichloropropane	ug/L	50	50.9	102	76-131	
1,4-Dichlorobenzene	ug/L	50	48.2	96	78-130	

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QUALITY CONTROL DATA

Project: Kop FLEx

Pace Project No.: 92386883

LABORATORY CONTROL SAMPLE: 2298724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	48.1	96	40-160	
2-Butanone (MEK)	ug/L	100	99.3	99	61-144	
2-Chlorotoluene	ug/L	50	47.5	95	74-132	
2-Hexanone	ug/L	100	88.2	88	68-143	
4-Chlorotoluene	ug/L	50	47.1	94	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.8	94	72-135	
Acetone	ug/L	100	106	106	48-146	
Benzene	ug/L	50	50.3	101	80-125	
Bromobenzene	ug/L	50	48.8	98	75-125	
Bromochloromethane	ug/L	50	49.4	99	71-125	
Bromodichloromethane	ug/L	50	46.5	93	78-124	
Bromoform	ug/L	50	41.5	83	71-128	
Bromomethane	ug/L	50	40.6	81	40-160	
Carbon tetrachloride	ug/L	50	46.0	92	69-131	
Chlorobenzene	ug/L	50	48.9	98	81-122	
Chloroethane	ug/L	50	39.8	80	39-148	
Chloroform	ug/L	50	53.1	106	73-127	
Chloromethane	ug/L	50	36.9	74	44-146	
cis-1,2-Dichloroethene	ug/L	50	49.9	100	74-124	
cis-1,3-Dichloropropene	ug/L	50	48.8	98	72-132	
Dibromochloromethane	ug/L	50	46.8	94	78-125	
Dibromomethane	ug/L	50	48.5	97	82-120	
Dichlorodifluoromethane	ug/L	50	45.3	91	34-157	
Diisopropyl ether	ug/L	50	54.1	108	69-135	
Ethylbenzene	ug/L	50	48.0	96	79-121	
Hexachloro-1,3-butadiene	ug/L	50	46.2	92	72-131	
m&p-Xylene	ug/L	100	96.4	96	81-124	
Methyl-tert-butyl ether	ug/L	50	53.8	108	74-131	
Methylene Chloride	ug/L	50	48.9	98	64-133	
Naphthalene	ug/L	50	47.7	95	73-133	
o-Xylene	ug/L	50	49.1	98	79-131	
p-Isopropyltoluene	ug/L	50	46.8	94	80-131	
Styrene	ug/L	50	47.1	94	84-126	
Tetrachloroethene	ug/L	50	48.2	96	78-122	
Toluene	ug/L	50	48.0	96	80-121	
trans-1,2-Dichloroethene	ug/L	50	50.8	102	71-127	
trans-1,3-Dichloropropene	ug/L	50	48.6	97	69-141	
Trichloroethene	ug/L	50	51.1	102	78-122	
Trichlorofluoromethane	ug/L	50	48.0	96	53-137	
Vinyl acetate	ug/L	100	115	115	40-160	
Vinyl chloride	ug/L	50	47.1	94	50-150	
Xylene (Total)	ug/L	150	146	97	81-126	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

MATRIX SPIKE SAMPLE: 2298726		92387044002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	18.3	92	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.0	115	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	17.7	88	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.2	101	70-130	
1,1-Dichloroethane	ug/L	ND	20	21.1	106	70-130	
1,1-Dichloroethene	ug/L	ND	20	24.2	121	70-166	
1,1-Dichloropropene	ug/L	ND	20	23.5	117	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	19.2	96	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	17.9	89	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	19.3	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	15.8	79	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	18.7	93	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	19.6	98	70-130	
1,2-Dichloroethane	ug/L	ND	20	21.2	106	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.5	108	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	19.7	98	70-130	
1,3-Dichloropropane	ug/L	ND	20	19.3	96	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	19.9	100	70-130	
2,2-Dichloropropane	ug/L	ND	20	21.0	105	70-130	
2-Butanone (MEK)	ug/L	ND	40	36.9	92	70-130	
2-Chlorotoluene	ug/L	ND	20	19.2	96	70-130	
2-Hexanone	ug/L	ND	40	34.3	86	70-130	
4-Chlorotoluene	ug/L	ND	20	19.5	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	37.1	93	70-130	
Acetone	ug/L	ND	40	40.4	101	70-130	
Benzene	ug/L	ND	20	21.3	107	70-148	
Bromobenzene	ug/L	ND	20	19.5	97	70-130	
Bromochloromethane	ug/L	ND	20	22.3	112	70-130	
Bromodichloromethane	ug/L	ND	20	20.1	100	70-130	
Bromoform	ug/L	ND	20	15.2	76	70-130	
Bromomethane	ug/L	ND	20	14.8	74	70-130	
Carbon tetrachloride	ug/L	ND	20	21.7	109	70-130	
Chlorobenzene	ug/L	ND	20	20.1	100	70-146	
Chloroethane	ug/L	ND	20	19.9	100	70-130	
Chloroform	ug/L	ND	20	23.3	116	70-130	
Chloromethane	ug/L	ND	20	14.8	74	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	21.8	109	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.6	98	70-130	
Dibromochloromethane	ug/L	ND	20	17.9	89	70-130	
Dibromomethane	ug/L	ND	20	21.1	105	70-130	
Dichlorodifluoromethane	ug/L	ND	20	21.3	107	70-130	
Diisopropyl ether	ug/L	ND	20	20.2	101	70-130	
Ethylbenzene	ug/L	ND	20	20.2	101	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	19.6	98	70-130	
m&p-Xylene	ug/L	ND	40	40.9	102	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.6	98	70-130	
Methylene Chloride	ug/L	ND	20	16.8	84	70-130	

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

MATRIX SPIKE SAMPLE: 2298726		92387044002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	ND	20	18.2	91	70-130	
o-Xylene	ug/L	ND	20	20.1	101	70-130	
p-Isopropyltoluene	ug/L	ND	20	19.6	98	70-130	
Styrene	ug/L	ND	20	19.2	96	70-130	
Tetrachloroethene	ug/L	ND	20	19.4	97	70-130	
Toluene	ug/L	ND	20	21.1	105	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	22.0	110	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	19.3	96	70-130	
Trichloroethene	ug/L	ND	20	22.4	112	69-151	
Trichlorofluoromethane	ug/L	ND	20	25.3	126	70-130	
Vinyl acetate	ug/L	ND	40	46.8	117	70-130	
Vinyl chloride	ug/L	ND	20	20.7	103	70-130	
Xylene (Total)	ug/L	ND	60	61.0	102	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 2298725

Parameter	Units	92387044001	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	

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QUALITY CONTROL DATA

Project: Kop FLEx
Pace Project No.: 92386883

SAMPLE DUPLICATE: 2298725

Parameter	Units	92387044001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	.58J		30	
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	2.2		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	.32J		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	.31J		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)	%	102	108	6		
4-Bromofluorobenzene (S)	%	100	101	1		
Toluene-d8 (S)	%	105	107	1		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

QC Batch: 413701 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92386883001

METHOD BLANK: 2294137 Matrix: Water
Associated Lab Samples: 92386883001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/04/18 16:46	
1,2-Dichloroethane-d4 (S)	%	114	50-150	06/04/18 16:46	
Toluene-d8 (S)	%	111	50-150	06/04/18 16:46	

LABORATORY CONTROL SAMPLE: 2294138

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	21.3	107	71-125	
1,2-Dichloroethane-d4 (S)	%			115	50-150	
Toluene-d8 (S)	%			109	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2294139 2294140

Parameter	Units	92386848002		2294140		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,4-Dioxane (p-Dioxane)	ug/L	6.9	20	20	20.8	21.6	70	74	50-150	4	30		
1,2-Dichloroethane-d4 (S)	%						118	119	50-150		150		
Toluene-d8 (S)	%						115	117	50-150		150		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

QC Batch: 413790 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92386883004, 92386883005, 92386883007, 92386883008, 92386883009, 92386883011, 92386883012, 92386883013, 92386883015, 92386883016, 92386883017, 92386883018, 92386883019, 92386883020, 92386883021, 92386883022, 92386883023

METHOD BLANK: 2294554 Matrix: Water
Associated Lab Samples: 92386883004, 92386883005, 92386883007, 92386883008, 92386883009, 92386883011, 92386883012, 92386883013, 92386883015, 92386883016, 92386883017, 92386883018, 92386883019, 92386883020, 92386883021, 92386883022, 92386883023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/05/18 11:49	
1,2-Dichloroethane-d4 (S)	%	107	50-150	06/05/18 11:49	
Toluene-d8 (S)	%	107	50-150	06/05/18 11:49	

LABORATORY CONTROL SAMPLE: 2294555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	17.7	89	71-125	
1,2-Dichloroethane-d4 (S)	%			111	50-150	
Toluene-d8 (S)	%			108	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2294556 2294557

Parameter	Units	92386883021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	200	200	200	362	374	81	87	50-150	3	30	
1,2-Dichloroethane-d4 (S)	%						112	114	50-150		150	
Toluene-d8 (S)	%						112	111	50-150		150	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex
Pace Project No.: 92386883

QC Batch: 413794 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92386883003, 92386883024, 92386883025, 92386883026, 92386883027, 92386883028

METHOD BLANK: 2294558 Matrix: Water
Associated Lab Samples: 92386883003, 92386883024, 92386883025, 92386883026, 92386883027, 92386883028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/05/18 11:30	
1,2-Dichloroethane-d4 (S)	%	107	50-150	06/05/18 11:30	
Toluene-d8 (S)	%	105	50-150	06/05/18 11:30	

LABORATORY CONTROL SAMPLE: 2294559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	14.7	74	71-125	
1,2-Dichloroethane-d4 (S)	%			114	50-150	
Toluene-d8 (S)	%			109	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2295471 2295472

Parameter	Units	92386883024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	11.5	20	20	27.6	29.2	81	88	50-150	5	30	
1,2-Dichloroethane-d4 (S)	%						117	115	50-150		150	
Toluene-d8 (S)	%						113	111	50-150		150	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop FLex

Pace Project No.: 92386883

QC Batch: 413984 Analysis Method: EPA 8260B Mod.

QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM

Associated Lab Samples: 92386883002, 92386883006, 92386883010, 92386883014, 92386883029

METHOD BLANK: 2295532 Matrix: Water

Associated Lab Samples: 92386883002, 92386883006, 92386883010, 92386883014, 92386883029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/06/18 11:21	
1,2-Dichloroethane-d4 (S)	%	112	50-150	06/06/18 11:21	
Toluene-d8 (S)	%	109	50-150	06/06/18 11:21	

LABORATORY CONTROL SAMPLE: 2295533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	15.7	78	71-125	
1,2-Dichloroethane-d4 (S)	%			109	50-150	
Toluene-d8 (S)	%			108	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2295534 2295535

Parameter	Units	92386883002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	73.5	20	20	91.6	93.9	90	102	50-150	2	30	
1,2-Dichloroethane-d4 (S)	%						119	119	50-150		150	
Toluene-d8 (S)	%						113	112	50-150		150	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Kop FLEx
Pace Project No.: 92386883

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

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

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

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

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

MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Kop FLEx
Pace Project No.: 92386883

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92386883001	Trip Blank	EPA 8260	413766		
92386883002	MW-46	EPA 8260	413518		
92386883003	DUP053018	EPA 8260	413518		
92386883004	MW-16D	EPA 8260	413518		
92386883005	MW-16	EPA 8260	414141		
92386883006	RW-1S	EPA 8260	414141		
92386883007	MW-24D	EPA 8260	414141		
92386883008	MW-03	EPA 8260	413766		
92386883009	MW-20	EPA 8260	414141		
92386883010	MW-04	EPA 8260	414141		
92386883011	MW-09	EPA 8260	413518		
92386883012	MW-23D	EPA 8260	414141		
92386883013	MW-22D	EPA 8260	414141		
92386883014	MW-01D	EPA 8260	414141		
92386883015	RW-2D	EPA 8260	414500		
92386883016	MW-27D	EPA 8260	413766		
92386883017	MW-41D	EPA 8260	413766		
92386883018	RW-1D	EPA 8260	414141		
92386883019	MW-21D	EPA 8260	413923		
92386883020	MW-44	EPA 8260	413766		
92386883021	RW-2S	EPA 8260	414500		
92386883022	RW-3S	EPA 8260	413923		
92386883023	MW-38R	EPA 8260	413923		
92386883024	MW-05R	EPA 8260	413923		
92386883025	MW-40D	EPA 8260	413923		
92386883026	MW-18	EPA 8260	413923		
92386883027	MW-42	EPA 8260	413923		
92386883028	MW-39	EPA 8260	413923		
92386883029	MW-43	EPA 8260	413923		
92386883001	Trip Blank	EPA 8260B Mod.	413701		
92386883002	MW-46	EPA 8260B Mod.	413984		
92386883003	DUP053018	EPA 8260B Mod.	413794		
92386883004	MW-16D	EPA 8260B Mod.	413790		
92386883005	MW-16	EPA 8260B Mod.	413790		
92386883006	RW-1S	EPA 8260B Mod.	413984		
92386883007	MW-24D	EPA 8260B Mod.	413790		
92386883008	MW-03	EPA 8260B Mod.	413790		
92386883009	MW-20	EPA 8260B Mod.	413790		
92386883010	MW-04	EPA 8260B Mod.	413984		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Kop FLex

Pace Project No.: 92386883

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92386883011	MW-09	EPA 8260B Mod.	413790		
92386883012	MW-23D	EPA 8260B Mod.	413790		
92386883013	MW-22D	EPA 8260B Mod.	413790		
92386883014	MW-01D	EPA 8260B Mod.	413984		
92386883015	RW-2D	EPA 8260B Mod.	413790		
92386883016	MW-27D	EPA 8260B Mod.	413790		
92386883017	MW-41D	EPA 8260B Mod.	413790		
92386883018	RW-1D	EPA 8260B Mod.	413790		
92386883019	MW-21D	EPA 8260B Mod.	413790		
92386883020	MW-44	EPA 8260B Mod.	413790		
92386883021	RW-2S	EPA 8260B Mod.	413790		
92386883022	RW-3S	EPA 8260B Mod.	413790		
92386883023	MW-38R	EPA 8260B Mod.	413790		
92386883024	MW-05R	EPA 8260B Mod.	413794		
92386883025	MW-40D	EPA 8260B Mod.	413794		
92386883026	MW-18	EPA 8260B Mod.	413794		
92386883027	MW-42	EPA 8260B Mod.	413794		
92386883028	MW-39	EPA 8260B Mod.	413794		
92386883029	MW-43	EPA 8260B Mod.	413984		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name:

WSP Environment

Project

WO#: 92386883



92386883

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: EH 6-1-18

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 92T040 Type of Ice: Wet Blue None

Cooler Temp (°C): 2.0 Correction Factor: Add/Subtract (°C) +0.4

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

Cooler Temp Corrected (°C): 2.4

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.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

Field Data Required? Yes No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: 6/1

Project Manager SRF Review: _____

Date: 6/1

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

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

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

Proje **WO# : 92386883**

PM: PTE

Due Date: 06/08/18

CLIENT: 92-WSP

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

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

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

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

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

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

Project **WO# : 92386883**

PM: PTE

Due Date: 06/08/18

CLIENT: 92-WSP

Pg 2

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

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

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

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

Project: **WO#: 92386883**
 PM: PTE Due Date: 06/08/18
 CLIENT: 92-WSP

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

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

P23

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

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

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

ONSITE

CHAIN-OF-CUSTODY RECORD

WSP USA Office Address: Hershey, PA

Project Name: KOPFLEX WSP USA Contact Name: Eric Johnson

Project Location: [Blank] WSP USA Contact Email: [Blank] @wsp.com

Project Number & Task: 703 7596500 WSP USA Contact Phone: 703 7596500

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

Requested Turn-Around-Time: Standard 24 HR 48 HR 72 HR

Laboratory Name & Location: Pyle, NC Laboratory Project Manager: Taylor Fells

Sample Comments: 92386883 015

Sample Identification	Matrix	Collection Start		Collection Stop		Number of Containers	Requested Analyses & Preservatives		Tracking Number(s)
		Date	Time	Date	Time				
RM-07	MM-37D						VOCs (8260)		
RM-07	MM-37D	5/22/18	11:25	6/11	08:40	6	1,4-Dioxane (8260 SWMS)		92386883 015
MM-41D						6			016
RM-11D						6			017
MM-21D						6			018
MM-44						6			019
RM-28						6			020
RM-35						6			021
MM-38R						6			022
MM-05R						6			023
MM-40D						6			024
MM-19						6			025
MM-42						6			026
MM-39						6			027
MM-43						6			028
Relinquished By (Signature): <u>[Signature]</u>	Date: <u>5/21/18</u>	Time: <u>1650</u>	Received By (Signature): <u>[Signature]</u>	Date: <u>6-18</u>	Time: <u>1107</u>	Shipment Method: <u>3</u>	Tracking Number(s): <u>029</u>		

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)

CHAIN-OF-CUSTODY RECORD

ONSITE

WSP USA Office Address: **Forader, VA**
 Project Name: **KOFFER**
 Project Location: **Forader, MD**
 Project Number & Task: **31403389**

WSP USA Contact Name: **Eric Johnson**
 WSP USA Contact E-mail: **eric.johnson@wsp.com**
 WSP USA Contact Phone: **703 709 6500**

Sampler(s) Name(s): **Molly Long, Chris Green**
 Sampler(s) Signature(s): *[Signatures]*

Sample Identification: **Top Blank**

Requested Analyses & Preservatives	
Matrix	Collection Start Date
Collection Time	Collection Stop Date
Time	Time
Number of Containers	
	VOCs (8260)
	14-DOX (8260 SWS)

No. **008045** WSP
 Laboratory Name & Location: **Paetz NC**
 Laboratory Project Manager: **Taylor Etzell**
 Requested Turn-Around-Time: Standard 24 HR 48 HR 72 HR

Sample Identification	Matrix	Collection Start Date	Collection Time	Collection Stop Date	Time	Number of Containers	Requested Turn-Around-Time	Tracking Number(s)
Top Blank	1	provided					92386883	001
MW-46	GLA	5/30/18	15	50				002
DUP053018			09	00				003
MW-16D			14	50				004
MW-16			14	35				005
RW-15			14	25				006
MW-24D			13	50				007
MW-16E								
MW-03			13	30				008
MW-20			13	15				009
MW-04			13	05				010
MW-09			12	55				011
MW-23D			12	40				012
MW-22D			11	35				013
MW-01D			11	15				014
Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)	
<i>[Signature]</i>	5/31/18	1:30	<i>[Signature]</i>	6-1-18	11:07	3		

*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)

2.4

July 09, 2018

Eric Johnson
WSP USA
13530 Dulles Technology Drive
Suite 300
Herndon, VA 20171

RE: Project: Kop Flex
Pace Project No.: 92390486

Dear Eric Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on July 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Kop Flex
Pace Project No.: 92390486

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Kop Flex
Pace Project No.: 92390486

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92390486001	MW-45-062818	Water	06/28/18 08:45	07/02/18 08:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Kop Flex
Pace Project No.: 92390486

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92390486001	MW-45-062818	EPA 8260	CAH	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop Flex
Pace Project No.: 92390486

Sample: MW-45-062818	Lab ID: 92390486001	Collected: 06/28/18 08:45	Received: 07/02/18 08:40	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		07/03/18 18:05	67-64-1	
Benzene	ND	ug/L	1.0	1		07/03/18 18:05	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/03/18 18:05	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/03/18 18:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/03/18 18:05	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/03/18 18:05	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/03/18 18:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/03/18 18:05	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/03/18 18:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/03/18 18:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/03/18 18:05	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/03/18 18:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/03/18 18:05	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/03/18 18:05	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/03/18 18:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/03/18 18:05	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/03/18 18:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/03/18 18:05	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/03/18 18:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/03/18 18:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/03/18 18:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/03/18 18:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/03/18 18:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/03/18 18:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/03/18 18:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/03/18 18:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/03/18 18:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/03/18 18:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/03/18 18:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/03/18 18:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/03/18 18:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/03/18 18:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/03/18 18:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/03/18 18:05	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/03/18 18:05	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/03/18 18:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/03/18 18:05	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/03/18 18:05	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/03/18 18:05	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/03/18 18:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/03/18 18:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/03/18 18:05	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/03/18 18:05	91-20-3	
Styrene	ND	ug/L	1.0	1		07/03/18 18:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/03/18 18:05	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/03/18 18:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/03/18 18:05	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop Flex
Pace Project No.: 92390486

Sample: MW-45-062818	Lab ID: 92390486001	Collected: 06/28/18 08:45	Received: 07/02/18 08:40	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		07/03/18 18:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/03/18 18:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/03/18 18:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/03/18 18:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/03/18 18:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/03/18 18:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/03/18 18:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/03/18 18:05	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/03/18 18:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/03/18 18:05	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		07/03/18 18:05	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/03/18 18:05	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/03/18 18:05	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		07/03/18 18:05	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		07/03/18 18:05	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		07/03/18 18:05	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		07/06/18 12:12	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	50-150	1		07/06/18 12:12	17060-07-0	
Toluene-d8 (S)	104	%	50-150	1		07/06/18 12:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop Flex

Pace Project No.: 92390486

QC Batch: 417684

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92390486001

METHOD BLANK: 2315942

Matrix: Water

Associated Lab Samples: 92390486001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/03/18 12:28	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/03/18 12:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/03/18 12:28	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/03/18 12:28	
1,1-Dichloroethane	ug/L	ND	1.0	07/03/18 12:28	
1,1-Dichloroethene	ug/L	ND	1.0	07/03/18 12:28	
1,1-Dichloropropene	ug/L	ND	1.0	07/03/18 12:28	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/03/18 12:28	
1,2,3-Trichloropropane	ug/L	ND	1.0	07/03/18 12:28	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/03/18 12:28	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	07/03/18 12:28	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/03/18 12:28	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/03/18 12:28	
1,2-Dichloroethane	ug/L	ND	1.0	07/03/18 12:28	
1,2-Dichloropropane	ug/L	ND	1.0	07/03/18 12:28	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/03/18 12:28	
1,3-Dichloropropane	ug/L	ND	1.0	07/03/18 12:28	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/03/18 12:28	
2,2-Dichloropropane	ug/L	ND	1.0	07/03/18 12:28	
2-Butanone (MEK)	ug/L	ND	5.0	07/03/18 12:28	
2-Chlorotoluene	ug/L	ND	1.0	07/03/18 12:28	
2-Hexanone	ug/L	ND	5.0	07/03/18 12:28	
4-Chlorotoluene	ug/L	ND	1.0	07/03/18 12:28	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	07/03/18 12:28	
Acetone	ug/L	ND	25.0	07/03/18 12:28	
Benzene	ug/L	ND	1.0	07/03/18 12:28	
Bromobenzene	ug/L	ND	1.0	07/03/18 12:28	
Bromochloromethane	ug/L	ND	1.0	07/03/18 12:28	
Bromodichloromethane	ug/L	ND	1.0	07/03/18 12:28	
Bromoform	ug/L	ND	1.0	07/03/18 12:28	
Bromomethane	ug/L	ND	2.0	07/03/18 12:28	
Carbon tetrachloride	ug/L	ND	1.0	07/03/18 12:28	
Chlorobenzene	ug/L	ND	1.0	07/03/18 12:28	
Chloroethane	ug/L	ND	1.0	07/03/18 12:28	
Chloroform	ug/L	ND	1.0	07/03/18 12:28	
Chloromethane	ug/L	ND	1.0	07/03/18 12:28	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/03/18 12:28	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/03/18 12:28	
Dibromochloromethane	ug/L	ND	1.0	07/03/18 12:28	
Dibromomethane	ug/L	ND	1.0	07/03/18 12:28	
Dichlorodifluoromethane	ug/L	ND	1.0	07/03/18 12:28	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop Flex
Pace Project No.: 92390486

METHOD BLANK: 2315942 Matrix: Water
Associated Lab Samples: 92390486001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	07/03/18 12:28	
Ethylbenzene	ug/L	ND	1.0	07/03/18 12:28	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	07/03/18 12:28	
m&p-Xylene	ug/L	ND	2.0	07/03/18 12:28	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/03/18 12:28	
Methylene Chloride	ug/L	ND	2.0	07/03/18 12:28	
Naphthalene	ug/L	ND	1.0	07/03/18 12:28	
o-Xylene	ug/L	ND	1.0	07/03/18 12:28	
p-Isopropyltoluene	ug/L	ND	1.0	07/03/18 12:28	
Styrene	ug/L	ND	1.0	07/03/18 12:28	
Tetrachloroethene	ug/L	ND	1.0	07/03/18 12:28	
Toluene	ug/L	ND	1.0	07/03/18 12:28	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/03/18 12:28	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/03/18 12:28	
Trichloroethene	ug/L	ND	1.0	07/03/18 12:28	
Trichlorofluoromethane	ug/L	ND	1.0	07/03/18 12:28	
Vinyl acetate	ug/L	ND	2.0	07/03/18 12:28	
Vinyl chloride	ug/L	ND	1.0	07/03/18 12:28	
Xylene (Total)	ug/L	ND	1.0	07/03/18 12:28	
1,2-Dichloroethane-d4 (S)	%	101	70-130	07/03/18 12:28	
4-Bromofluorobenzene (S)	%	101	70-130	07/03/18 12:28	
Toluene-d8 (S)	%	100	70-130	07/03/18 12:28	

LABORATORY CONTROL SAMPLE: 2315943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.7	101	80-125	
1,1,1-Trichloroethane	ug/L	50	56.2	112	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	56.4	113	79-124	
1,1,2-Trichloroethane	ug/L	50	57.2	114	85-125	
1,1-Dichloroethane	ug/L	50	57.0	114	73-126	
1,1-Dichloroethene	ug/L	50	57.5	115	66-135	
1,1-Dichloropropene	ug/L	50	49.7	99	74-135	
1,2,3-Trichlorobenzene	ug/L	50	53.6	107	73-135	
1,2,3-Trichloropropane	ug/L	50	56.0	112	75-130	
1,2,4-Trichlorobenzene	ug/L	50	55.7	111	75-134	
1,2-Dibromo-3-chloropropane	ug/L	50	51.7	103	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	59.0	118	83-124	
1,2-Dichlorobenzene	ug/L	50	54.9	110	80-133	
1,2-Dichloroethane	ug/L	50	52.7	105	67-128	
1,2-Dichloropropane	ug/L	50	51.4	103	75-132 1g	
1,3-Dichlorobenzene	ug/L	50	55.3	111	77-130	
1,3-Dichloropropane	ug/L	50	58.3	117	76-131	
1,4-Dichlorobenzene	ug/L	50	54.3	109	78-130	

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QUALITY CONTROL DATA

Project: Kop Flex
Pace Project No.: 92390486

LABORATORY CONTROL SAMPLE: 2315943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	58.0	116	40-160	
2-Butanone (MEK)	ug/L	100	108	108	61-144	1g
2-Chlorotoluene	ug/L	50	55.2	110	74-132	
2-Hexanone	ug/L	100	111	111	68-143	1g
4-Chlorotoluene	ug/L	50	54.3	109	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	72-135	
Acetone	ug/L	100	116	116	48-146	
Benzene	ug/L	50	56.3	113	80-125	
Bromobenzene	ug/L	50	56.5	113	75-125	
Bromochloromethane	ug/L	50	58.9	118	71-125	
Bromodichloromethane	ug/L	50	50.8	102	78-124	
Bromoform	ug/L	50	51.3	103	71-128	1g
Bromomethane	ug/L	50	45.3	91	40-160	
Carbon tetrachloride	ug/L	50	54.3	109	69-131	
Chlorobenzene	ug/L	50	54.5	109	81-122	
Chloroethane	ug/L	50	33.0	66	39-148	1g
Chloroform	ug/L	50	53.7	107	73-127	
Chloromethane	ug/L	50	47.0	94	44-146	
cis-1,2-Dichloroethene	ug/L	50	57.2	114	74-124	
cis-1,3-Dichloropropene	ug/L	50	51.5	103	72-132	
Dibromochloromethane	ug/L	50	51.5	103	78-125	
Dibromomethane	ug/L	50	59.1	118	82-120	
Dichlorodifluoromethane	ug/L	50	50.6	101	34-157	
Diisopropyl ether	ug/L	50	51.7	103	69-135	
Ethylbenzene	ug/L	50	54.3	109	79-121	
Hexachloro-1,3-butadiene	ug/L	50	57.7	115	72-131	
m&p-Xylene	ug/L	100	112	112	81-124	
Methyl-tert-butyl ether	ug/L	50	54.6	109	74-131	
Methylene Chloride	ug/L	50	49.1	98	64-133	1g
Naphthalene	ug/L	50	52.3	105	73-133	
o-Xylene	ug/L	50	56.8	114	79-131	
p-Isopropyltoluene	ug/L	50	55.5	111	80-131	
Styrene	ug/L	50	56.8	114	84-126	
Tetrachloroethene	ug/L	50	53.1	106	78-122	
Toluene	ug/L	50	53.8	108	80-121	
trans-1,2-Dichloroethene	ug/L	50	56.3	113	71-127	
trans-1,3-Dichloropropene	ug/L	50	51.3	103	69-141	
Trichloroethene	ug/L	50	57.4	115	78-122	
Trichlorofluoromethane	ug/L	50	42.5	85	53-137	
Vinyl acetate	ug/L	100	114	114	40-160	
Vinyl chloride	ug/L	50	51.6	103	50-150	
Xylene (Total)	ug/L	150	169	113	81-126	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: Kop Flex
Pace Project No.: 92390486

Parameter	Units	92390453012		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.3	21.0	106	105	70-130	1	30					
1,1,1-Trichloroethane	ug/L	ND	20	20	25.2	24.9	126	124	70-130	1	30					
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.9	22.4	115	112	70-130	2	30					
1,1,2-Trichloroethane	ug/L	ND	20	20	24.1	23.5	120	118	70-130	2	30					
1,1-Dichloroethane	ug/L	17.2	20	20	40.6	47.2	117	150	70-130	15	30	M1				
1,1-Dichloroethene	ug/L	12.0	20	20	32.4	57.5	102	227	70-166	56	30	M1,R1				
1,1-Dichloropropene	ug/L	ND	20	20	22.5	22.1	113	111	70-130	2	30					
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.1	22.0	105	110	70-130	4	30					
1,2,3-Trichloropropane	ug/L	ND	20	20	20.7	20.5	104	102	70-130	1	30					
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.8	23.0	109	115	70-130	6	30					
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.5	20.5	102	103	70-130	0	30					
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	24.5	23.9	123	120	70-130	2	30					
1,2-Dichlorobenzene	ug/L	ND	20	20	22.7	22.8	113	114	70-130	1	30					
1,2-Dichloroethane	ug/L	ND	20	20	25.0	23.7	123	116	70-130	5	30					
1,2-Dichloropropane	ug/L	ND	20	20	23.2	22.8	116	114	70-130	2	30					
1,3-Dichlorobenzene	ug/L	ND	20	20	22.9	23.1	114	115	70-130	1	30					
1,3-Dichloropropane	ug/L	ND	20	20	24.5	23.9	123	120	70-130	2	30					
1,4-Dichlorobenzene	ug/L	ND	20	20	22.9	23.0	114	115	70-130	0	30					
2,2-Dichloropropane	ug/L	ND	20	20	24.3	23.5	122	118	70-130	3	30					
2-Butanone (MEK)	ug/L	ND	40	40	59.2	46.7	148	117	70-130	24	30	M1				
2-Chlorotoluene	ug/L	ND	20	20	23.5	23.6	118	118	70-130	1	30					
2-Hexanone	ug/L	ND	40	40	43.6	42.8	109	107	70-130	2	30					
4-Chlorotoluene	ug/L	ND	20	20	23.0	23.2	115	116	70-130	1	30					
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	41.8	39.9	105	100	70-130	5	30					
Acetone	ug/L	ND	40	40	53.0	48.9	132	122	70-130	8	30	M1				
Benzene	ug/L	ND	20	20	25.4	25.3	125	124	70-148	0	30					
Bromobenzene	ug/L	ND	20	20	23.8	24.5	119	122	70-130	3	30					
Bromochloromethane	ug/L	ND	20	20	26.3	25.8	132	129	70-130	2	30	M1				
Bromodichloromethane	ug/L	ND	20	20	22.2	21.7	111	109	70-130	2	30					
Bromoform	ug/L	ND	20	20	20.1	19.4	100	97	70-130	3	30					
Bromomethane	ug/L	ND	20	20	18.1	18.5	90	93	70-130	2	30					
Carbon tetrachloride	ug/L	ND	20	20	24.4	24.0	122	120	70-130	2	30					
Chlorobenzene	ug/L	ND	20	20	23.7	23.3	118	116	70-146	2	30					
Chloroethane	ug/L	ND	20	20	19.7	20.1	98	101	70-130	2	30					
Chloroform	ug/L	ND	20	20	23.5	23.0	117	115	70-130	2	30					
Chloromethane	ug/L	ND	20	20	21.0	20.7	105	103	70-130	2	30					
cis-1,2-Dichloroethene	ug/L	5.5	20	20	28.1	39.8	113	172	70-130	35	30	M1,R1				
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.8	21.4	109	107	70-130	2	30					
Dibromochloromethane	ug/L	ND	20	20	21.2	20.9	106	104	70-130	1	30					
Dibromomethane	ug/L	ND	20	20	25.2	24.6	126	123	70-130	3	30					
Dichlorodifluoromethane	ug/L	ND	20	20	22.4	21.5	112	107	70-130	4	30					
Diisopropyl ether	ug/L	ND	20	20	22.0	21.3	110	107	70-130	3	30					
Ethylbenzene	ug/L	ND	20	20	23.9	23.6	119	118	70-130	1	30					
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.7	23.3	118	117	70-130	2	30					

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QUALITY CONTROL DATA

Project: Kop Flex
Pace Project No.: 92390486

Parameter	Units	2315977		2315978		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92390453012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
m&p-Xylene	ug/L	ND	40	40	48.5	47.9	121	120	70-130	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.2	22.5	116	112	70-130	3	30	
Methylene Chloride	ug/L	ND	20	20	23.6	19.1	118	95	70-130	21	30	
Naphthalene	ug/L	ND	20	20	19.6	20.6	98	103	70-130	5	30	
o-Xylene	ug/L	ND	20	20	24.6	24.2	123	121	70-130	1	30	
p-Isopropyltoluene	ug/L	ND	20	20	23.1	22.9	115	114	70-130	1	30	
Styrene	ug/L	ND	20	20	23.9	23.5	119	118	70-130	1	30	
Tetrachloroethene	ug/L	ND	20	20	22.9	22.0	114	110	70-130	4	30	
Toluene	ug/L	1.9	20	20	25.8	23.1	120	106	70-155	11	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	25.6	25.1	128	125	70-130	2	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.2	20.7	106	104	70-130	2	30	
Trichloroethene	ug/L	ND	20	20	25.4	25.5	127	127	69-151	0	30	
Trichlorofluoromethane	ug/L	ND	20	20	23.4	22.8	117	114	70-130	3	30	
Vinyl acetate	ug/L	ND	40	40	41.9	39.1	105	98	70-130	7	30	
Vinyl chloride	ug/L	3.2	20	20	25.7	26.8	112	118	70-130	4	30	
Xylene (Total)	ug/L	ND	60	60	73.1	72.1	122	120	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%						101	96	70-130			
4-Bromofluorobenzene (S)	%						101	100	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: Kop Flex
Pace Project No.: 92390486

QC Batch: 418020 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92390486001

METHOD BLANK: 2317402 Matrix: Water
Associated Lab Samples: 92390486001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	07/06/18 11:13	
1,2-Dichloroethane-d4 (S)	%	104	50-150	07/06/18 11:13	
Toluene-d8 (S)	%	104	50-150	07/06/18 11:13	

LABORATORY CONTROL SAMPLE: 2317403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	23.4	117	71-125	
1,2-Dichloroethane-d4 (S)	%			103	50-150	
Toluene-d8 (S)	%			103	50-150	

MATRIX SPIKE SAMPLE: 2317405

Parameter	Units	92390486001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	21.5	107	50-150	
1,2-Dichloroethane-d4 (S)	%				105	50-150	
Toluene-d8 (S)	%				105	50-150	

SAMPLE DUPLICATE: 2317404

Parameter	Units	92390486001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	104	103	1	150	
Toluene-d8 (S)	%	104	106	2	150	

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QUALIFIERS

Project: Kop Flex
Pace Project No.: 92390486

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error for the following compounds

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: Kop Flex
Pace Project No.: 92390486

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92390486001	MW-45-062818	EPA 8260	417684		
92390486001	MW-45-062818	EPA 8260B Mod.	418020		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name: WSP

Project #: **WO# : 92390486**



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MB-2-18

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 92T040

Type of Ice: Wet Blue None

Cooler Temp (°C): 26.1 Correction Factor: Add/Subtract (°C) +0.4

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 26.5

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

USDA Regulated Soil (N/A, water sample)

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

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	7.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: 7/3

Project Manager SRF Review: _____

Date: 7/3



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

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

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

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

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

Project # **WO# : 92390486**

PM: PTE

Due Date: 07/10/18

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)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	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)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY RECORD

Requested Analyses & Preservatives

WSP USA Office Address
13530 Dulles Technology Dr Suite 300, Herndon, VA

Project Name
KOP flex

Project Location
Hanover, MD

Project Number & Task
31400390 / 2

Sampler(s) Name(s)
Shannon Burke
Chris Chesca

WSP USA Contact Name
Eric Johnson

WSP USA Contact Email
eric.johnson@wsp.com

WSP USA Contact Phone
703-709-6500

Sampler(s) Signature(s)
Shannon Burke
Chris Chesca

Sample Identification
MW-45-062818

Matrix
GW

Collection Start Date
6/28/18

Collection Stop Date
0845

Number of Containers
6

Requested Analyses & Preservatives
VOCs 8260
1,4 dioxane

Laboratory Name & Location
Pace, NC

Laboratory Project Manager
Taylor Ezell

Requested Turn-Around-Time
 Standard 24 HR
 48 HR 72 HR
 ___ HR

Sample Comments
92390486-001

Retrieved By (Signature)
Shannon Burke

Date
6/28/18

Time
1045

Received By (Signature)
Michelle Pace

Date
7.2.18

Time
8:40

Shipment Method
Number of Packages
26.5

Tracking Number(s)
Custody Seal Number(s)

*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)