



VIA ELECTRONIC MAIL

August 2, 2021

John Hopkins
Remedial Project Manager
U.S. Environmental Protection Agency, Region III
1650 Arch Street
Mail Code – 3LD10
Philadelphia, PA 19103-2029

**Subject: Quarterly Progress Report No. 19
Former Kop-Flex Facility Site, Hanover, Maryland
USEPA ID No. MDD043373935
Administrative Order on Consent, Docket No. RCRA-03-2016-0170 CA**

Dear John:

On behalf of EMERSUB 16, LLC, a subsidiary of Emerson Electric Co., WSP USA, Inc. (WSP) is submitting this quarterly progress report describing the activities conducted in the second quarter of calendar year 2021 (April 1st through June 30th) as part of the corrective measures implementation at the former Kop-Flex, Inc. facility property located at 7555 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 (Consent Order). The report also describes the activities planned for the third quarter of calendar year 2021 (July 1st through September 30th).

This progress report is being submitted to the U.S. Environmental Protection Agency (EPA) pursuant to Section VI.C.3 of the Consent Order. Please note that, in addition to performing the work conducted under the Consent Order, EMERSUB 16 continues to perform the remedial activities specified in the October 2015 Response Action Plan (RAP) approved by the Maryland Department of the Environment (MDE) Voluntary Cleanup Program, and that EMERSUB 16 copies USEPA 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
Director, Geological Sciences

SLB:MML:REJ:rlo
K:\Emerson\Kop-Flex\ Reports\ Progress Reports\EPA Progress Reports\CM Progress Report 19 Q2 2021\

Encl.

cc: Mr. Stephen Clarke, EMERSUB 16 LLC
Ms. Richelle Hanson, Maryland Department of the Environment

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

Tel.: +1 703 709-6500
Fax: +1 703 709-8505
wsp.com



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:

A handwritten signature in blue ink, appearing to read 'Stephen L. Clarke', written over a horizontal line.

Name:

Stephen L. Clarke

Title:

President of EMERSUB 16, LLC

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

Tel.: +1 703 709-8500
Fax: +1 703 709-8505
wsp.com

Quarterly Progress Report No. 19

Former Kop-Flex Facility Site

April 2021 through June 2021

Site Name: Former Kop-Flex Facility
Site Address: 7565 Harmans Road
Hanover, Maryland 21077

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 Kelly

1.0 ACTIVITIES COMPLETED DURING APRIL 2021 – JUNE 2021 REPORTING PERIOD

1.1 HYDRAULIC CONTAINMENT SYSTEM OPERATION

- The hydraulic containment system (System) operated for 75 of the 91 days during the second quarter of 2021, which equates to an 82% run-time efficiency over this 3-month period. System shutdowns included three brief (less than 24 hour) periods due to minor issues with the pH adjustment system. There was an extended System shutdown from June 9th through June 21st due to issues with the compressed air system that controls the pneumatically actuated valves installed in the process piping. The operator manually shut down the System on June 9th due to a leak in the compressed air system that was causing the air compressor to run constantly and overheat. The operator restarted the System on June 21st after replacing and repairing various components of the compressed air system.
- A total of approximately 7.61 million gallons of impacted groundwater were extracted by the recovery wells and treated by the System during the second quarter of 2021, with the combined average monthly withdrawal rate during full-scale operation ranging from 68 gallons per minute (GPM) to 72 GPM. To monitor and evaluate concentrations of volatile organic compounds (VOCs) and 1,4-dioxane in the untreated and treated water, samples of both the System influent and effluent were collected and analyzed during the reporting period. An influent water sample was collected for chemical analysis in April, while monthly effluent samples were collected from April through June. The effluent samples 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 issued by the MDE (Discharge Permit).
 - The total concentration of chlorinated VOCs (CVOCs) and 1,4-dioxane in the influent sample was 343 micrograms per liter ($\mu\text{g/L}$), which is consistent with previous sampling data. As of the end of June 2021, an estimated total of 395 pounds of CVOCs and 167 pounds of 1,4-dioxane have been recovered from the affected portion of the Lower Patapsco aquifer.
 - Analysis of the effluent samples indicated non-detect concentrations of CVOCs. The analytical results for all monitoring parameters complied with the effluent limitations specified in the Discharge Permit.
 - The 1,4-dioxane concentrations in the effluent samples ranged from non-detect (May and June 2021) to 1.2 $\mu\text{g/L}$ (April 2021). The analytical results for 1,4-dioxane were below the site-specific cleanup level of 15 $\mu\text{g/L}$.



1.2 ORGANIC MATTER FOULANT PRE-TREATMENT EVALUATION

- As discussed in the previous progress report, WSP and EMERSUB 16 decided to move forward with a small-scale column treatability test of the ion exchange pre-treatment technology based on evaluation of the bench-scale isotherm testing results. WSP retained Emerging Contaminant Treatment Technologies (ECT2) to assist with the design and set-up of the ion exchange resin test column in the treatment building at the Site. The ion exchange resin was packed into a column measuring approximately 4 inches in diameter and 40 inches in length, which was mounted vertically for the test. The influent for the test column was plumbed into the water conveyance piping just downstream of the bag filters. The test set-up included a peristaltic pump set to maintain a flow rate of approximately 440 milliliters per minute (0.12 GPM) through the resin column and a 5-micron in-line water filter. A pressure regulator/indicator was installed just upstream of the peristaltic pump to lower the influent pressure within the range rated for the pump. The column effluent was set to drain into the building sump, where it would be pumped back to the flow equalization tank. Three pressure indicators were included in the set-up to monitor the differential pressures across both the in-line filter and the resin column, and a rotameter and digital flow meter/totalizer were used to monitor the flow rate and the total volume of water processed by the column. Sample ports were included on the influent and effluent sides of the column. Photographs detailing the set-up for the resin column for the treatability test are included in Enclosure A.
- The ion exchange column treatability test was initiated on April 12, 2021, and continued through May 10, 2021, which equates to a 4-week test duration. Samples of the column influent and effluent were collected three times per week (Mondays, Wednesdays, and Fridays) during the testing period to evaluate the treatment effectiveness for the organic matter. All column influent and effluent samples were submitted to Eurofins Environment Testing America laboratory in Lancaster, Pennsylvania, and analyzed for low level total organic carbon (TOC) using Standard Method (SM) 5550B and tannins and lignins using SM 5310C. The column influent and effluent samples collected on Mondays were also analyzed for VOCs using EPA SW-846 Test Method 8260C and 1,4-dioxane using EPA SW-846 Test Method 8260C with Selected Ion Monitoring. After completing the treatment portion of the test, the spent ion exchange resin column was disassembled and shipped to ECT2's laboratory, in the event further testing was deemed necessary.
- Table 1 provides the analytical results of the treatability test samples, and the laboratory analytical reports are included in Enclosure A. The analytical results for TOC and tannins and lignins were used as indicators for natural organic matter removal during the treatability test. Tannins and lignins were not detected in any samples collected during the testing period. TOC breakthrough occurred much earlier than anticipated, with TOC detected in the column effluent sample collected 2 days after initiating the test. The results of the column influent and effluent sampling also suggested that VOCs were being adsorbed by the ion exchange resin, which was only intended to treat natural organic matter. The results suggest that full-scale implementation of pre-treatment by ion exchange will not be cost effective as compared with periodic heated caustic cleaning of the resin as has been performed in the past.

1.3 WASTEWATER DISCHARGE PERMIT TO PUBLICLY OWNED TREATMENT WORKS

- As mentioned in Quarterly Progress Report No. 18 (dated May 4, 2021), a certified wastewater discharge permit application for the groundwater treatment system, and corresponding application fee, were submitted to the Anne Arundel County (County) Department of Public Works (DPW) on April 9, 2021.
- On June 30, 2021, the County DPW informed WSP that it had completed its review of the April 2021 wastewater discharge permit application and was prepared to issue the permit to EMERSUB 16 upon receipt of payment of the annual \$100 administrative fee. Remittance for the permit administrative fee for 2021 was sent to the County DPW in mid-July and was received as of the date of this submittal.



1.4 GROUNDWATER LEVEL MONITORING

- Groundwater level monitoring is conducted semi-annually to gather data to evaluate the hydraulic response to remedial pumping in both the shallow and deep zones of the Lower Patapsco aquifer at the Site. Based on historical water level data collected under non-remedial pumping conditions, groundwater in the shallow zone of the Lower Patapsco aquifer flows to the north and west toward Stony Run, while flow paths are to the south-southeast in the deep (confined) zone of the aquifer.

During the reporting period, water level measurements were collected from monitoring wells and recovery well piezometers the week of May 9, 2021, as part of the semi-annual groundwater monitoring event. The water level data for this and previous measurement rounds is provided in Table 2. Water level measurements were not collected from monitoring well MW-5R due to a broken bolt in the flush-grade protective cover, thereby making the well inaccessible, or recovery well RW-1D because a pressure transducer was deployed in the piezometer. The damaged bolt for the MW-5R cover has been removed, and a replacement bolt will be installed during future site activities.

- Contour maps depicting the water table and hydraulic head conditions in the lower portion of the shallow zone of the Lower Patapsco aquifer are provided in Figures 1 and 2, respectively. Evaluation of the hydraulic head distribution and gradients at the groundwater surface and lower portion of the shallow zone are discussed separately below.

The water table contour map (Figure 1) indicates the northwestward flow of groundwater in the uppermost portion of the shallow hydrogeologic zone in the Lower Patapsco aquifer across the Site, with the continued presence of a lowering in the groundwater surface around well MW-38R that is associated with pumping from recovery wells RW-1S and RW-2S. In the eastern portion of the Site, a slight mounding, or rise, in the water table continues to exist around wells MW-04 and MW-09. This mounding effect appears to extend a short distance onto the adjacent William-Scotsman, Inc. property. The water table mounding reflects enhanced recharge to the groundwater system associated with the routing of surface water runoff to the small storm water management area (SWMA) located in the east-central portion of the Site. The enhanced infiltration of runoff in this SWMA, compared to the surrounding paved area, causes the localized increase in the water table elevation in the immediate area.

As with previous measurement rounds, the most pronounced head changes (i.e., drawdown) in the shallow zone of the Lower Patapsco aquifer occurred within the permeable sand deposits comprising the lower portion of this hydrogeologic unit, with a well-developed cone of depression in the piezometric surface centered around shallow recovery well RW-2S and extending to the north toward recovery well RW-1S and monitoring well MW-43 (Figure 2). Based on the head contours, groundwater in the eastern portion of the Site flows in a generally westward direction toward the recovery wells. The westward flow of groundwater in the shallow zone differs from southerly direction of groundwater movement in the deep confined zone.

- The potentiometric surface contour map for the deep, confined zone of the Lower Patapsco aquifer generated from the May 2021 water level data is provided in Figure 3. The hydraulic head distribution shows the continued existence of a slightly elongated depression, or lowering, in the potentiometric surface along the southern property boundary in response to groundwater withdrawals from the two deep recovery wells, RW-1D and RW-2D. Evaluation of the head distribution indicates drawdown of the potentiometric surface extending south onto the adjoining William Scotsman property. The decline in the head caused by the pumping at RW-1D and RW-2D results in the movement of groundwater toward these extraction wells.

1.5 GROUNDWATER QUALITY MONITORING

- In accordance with the Groundwater Monitoring Plan, groundwater quality samples were collected in early May 2021 from the shallow and deep recovery wells and the onsite monitoring wells identified for semi-annual sampling (except for MW-5R). Monitoring well MW-5R was inaccessible during the May sampling activities and will be sampled during the next semi-annual groundwater sampling event in November 2021.



Samples from the shallow and deep monitoring wells were collected using HydraSleeve™ passive samplers, which were deployed to the same depths as previous monitoring events. Groundwater samples were obtained by carefully removing the HydraSleeve™ sampler from the well and decanting a representative portion of the collected water into the laboratory-supplied containers. If a sufficient amount of groundwater remained in the HydraSleeve™ sampler after sample collection, selected field parameters, including temperature, pH, oxidation reduction potential, specific conductivity, dissolved oxygen, and turbidity, were measured using a calibrated water quality meter. For the recovery wells, the samples were collected directly from an in-line sampling port located at each well-head. All water samples were submitted to the Pace Analytical Services laboratory in Huntersville, North Carolina, and analyzed for VOCs using EPA SW-846 Test Method 8260D and 1,4-dioxane using modified EPA Test Method 8260D with selected ion monitoring.

- Analytical results for the site-related CVOCs and 1,4-dioxane are summarized in Table 3 for the monitoring well samples and Table 4 for the recovery well discharge samples. Copies of the certified laboratory analytical reports for the samples are included in Enclosure B. Historical (December 2016 to present) data for the monitoring well samples are provided in Table 5.
- For the shallow zone, samples of the untreated discharge from recovery wells RW-1S and RW-2S had total concentrations of detectable CVOCs + 1,4-dioxane of 891 µg/l and 593 µg/l, respectively (Figure 4; Table 4). The results for these recovery wells showed an increase in contaminant levels in the extracted groundwater compared to previous sampling data. As with the historical data, the total CVOC + 1,4-dioxane concentration in the RW-3S sample remained lower relative to the other shallow recovery wells, with no detected concentrations above the Site Groundwater Cleanup Standards. The CVOC and 1,4-dioxane concentrations in the groundwater samples from the shallow zone monitoring wells are similar to levels detected in the November 2020 samples (Table 5). The only exceptions were a noticeable increase in the CVOC and 1,4-dioxane concentrations in the MW-04 sample, and a significant decrease in these COC concentrations in the MW-16 sample (Figure 5).
- In the deep recovery well samples, 1,1-DCA, 1,1-dichloroethene (DCE), and 1,4-dioxane in the untreated water remain at concentrations above the Site Groundwater Cleanup Standards (Table 4). The sample results indicate higher levels of chlorinated CVOCs in the discharge from well RW-1D (270.1 µg/l) in the southwestern portion of the Site compared to RW-2D (126.1 µg/l) located near the southeastern corner. For the deep monitoring well samples, the CVOC and 1,4-dioxane concentrations for the May 2021 samples are generally similar to levels detected in the November 2020 samples (Table 5). The presence of constituent concentrations at or below the applicable cleanup levels at the MW-22D and MW-40D locations, together with the inferred capture area indicated by the potentiometric surface contours, indicates the groundwater contaminant plumes in the deep confined zone of the Lower Patapsco aquifer are being contained as a result of pumping from the deep recovery wells in the southern part of the Site (Figure 6).

2.0 PLANNED ONSITE ACTIVITIES FOR THE THIRD QUARTER OF 2021

- Continue with the full-scale System operation, including the collection and assessment of System data to evaluate operational performance, and conduct regular and as needed maintenance activities to optimize System performance and run-time.
- Conduct the required effluent monitoring and monthly reporting pursuant to the State Discharge/NPDES Permit.
- Complete the evaluation of the data collected during the small-scale field treatability test using the ion exchange technology to determine the effectiveness and implementability of this pre-treatment method.
- Submit the 2020 Operation, Maintenance, and Monitoring (OM&M) Report for the hydraulic containment system to EPA and MDE.

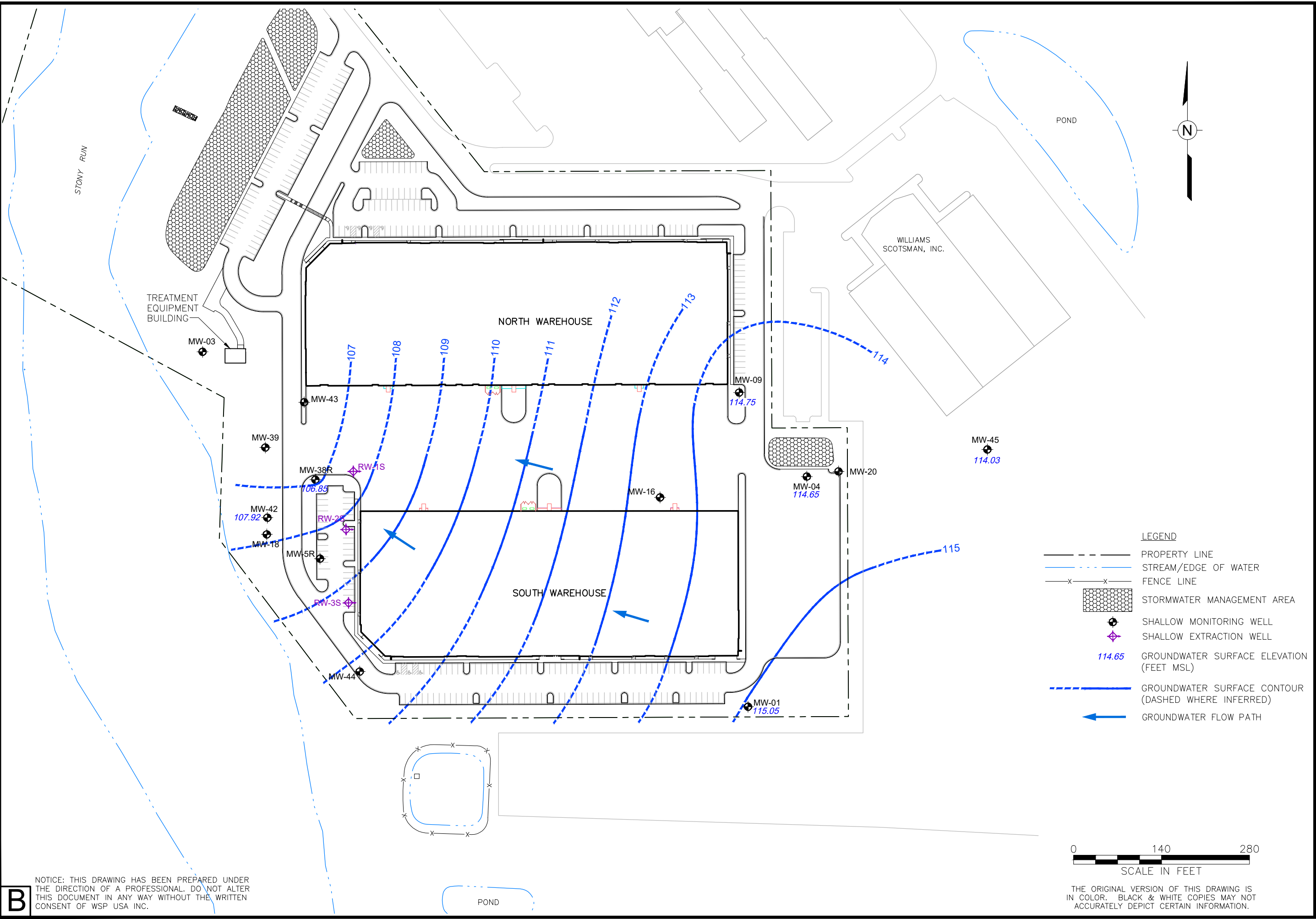


3.0 KEY PERSONNEL/FACILITY CHANGES

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

FIGURES

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FIGURE 1
 WATER TABLE CONTOUR MAP
 (MAY 2021)

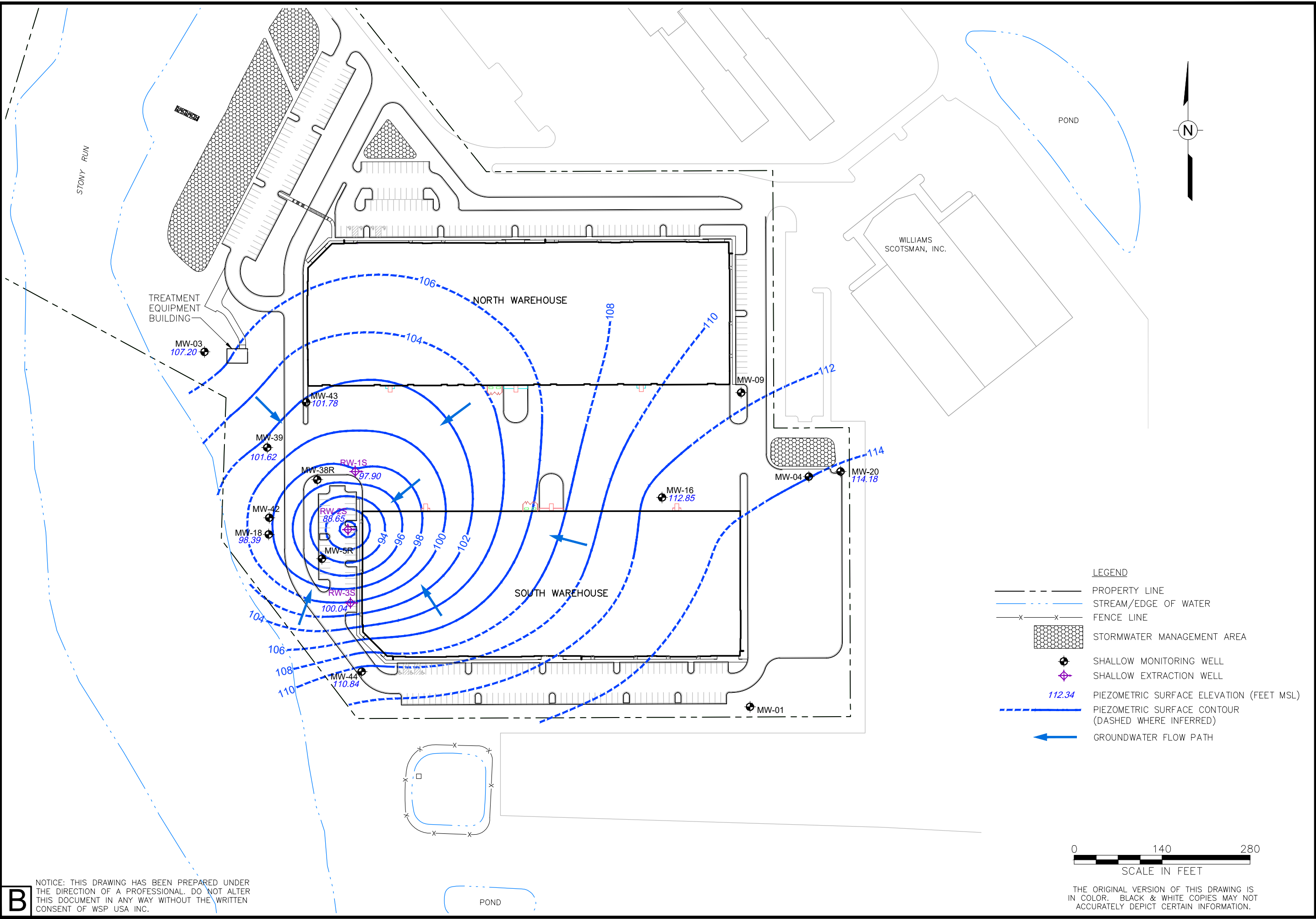
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 SUITE 500
 HERRINGTON, VA 20171
 TEL: +1 703.709.6500

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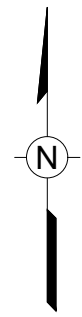
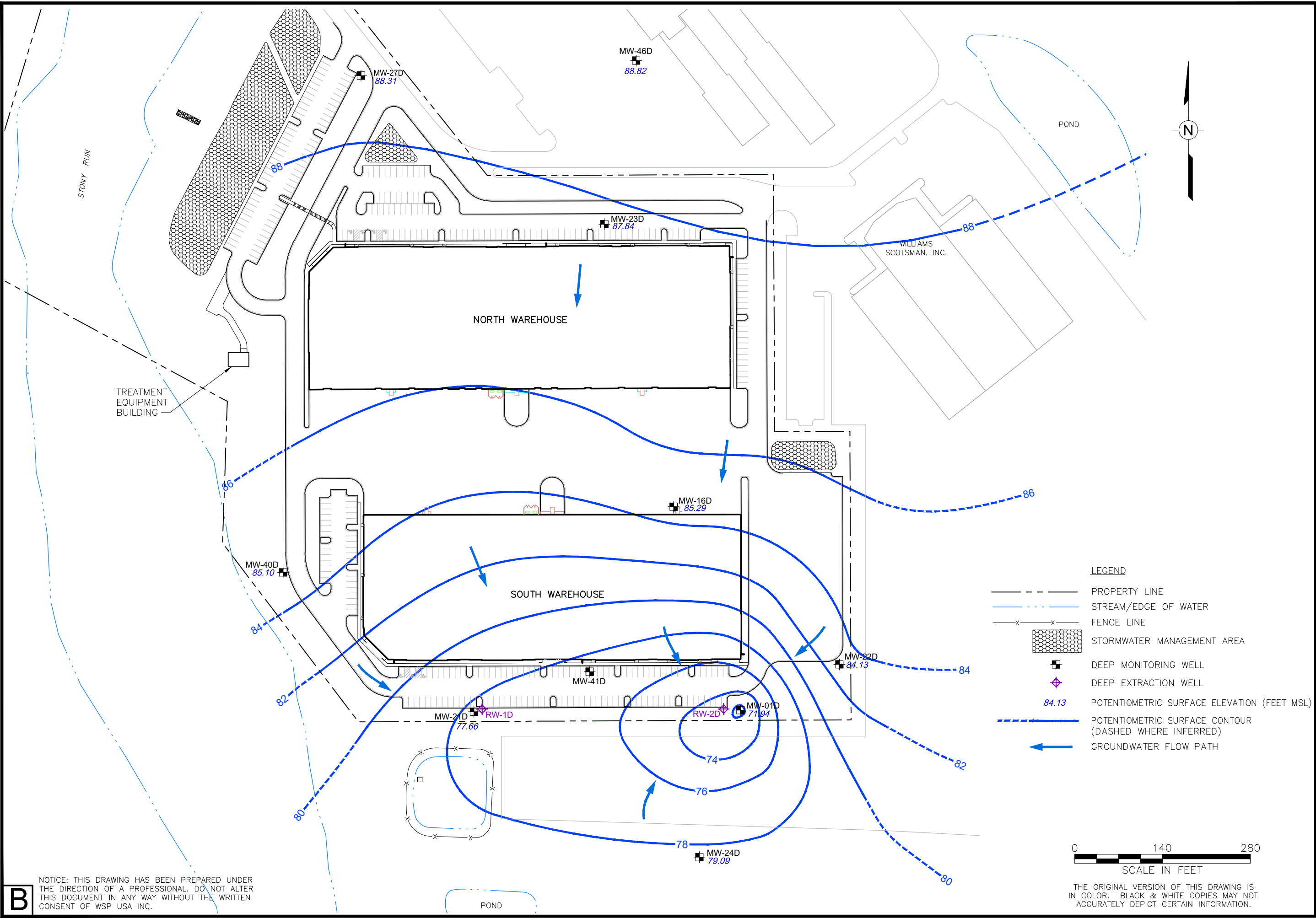
FIGURE 2
 PIEZOMETRIC SURFACE CONTOUR MAP FOR THE LOWER PORTION OF THE SHALLOW ZONE OF THE LOWER PATASPCO AQUIFER (MAY 2021)

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 SUITE 300
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 TEL: +1 703.709.6500

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



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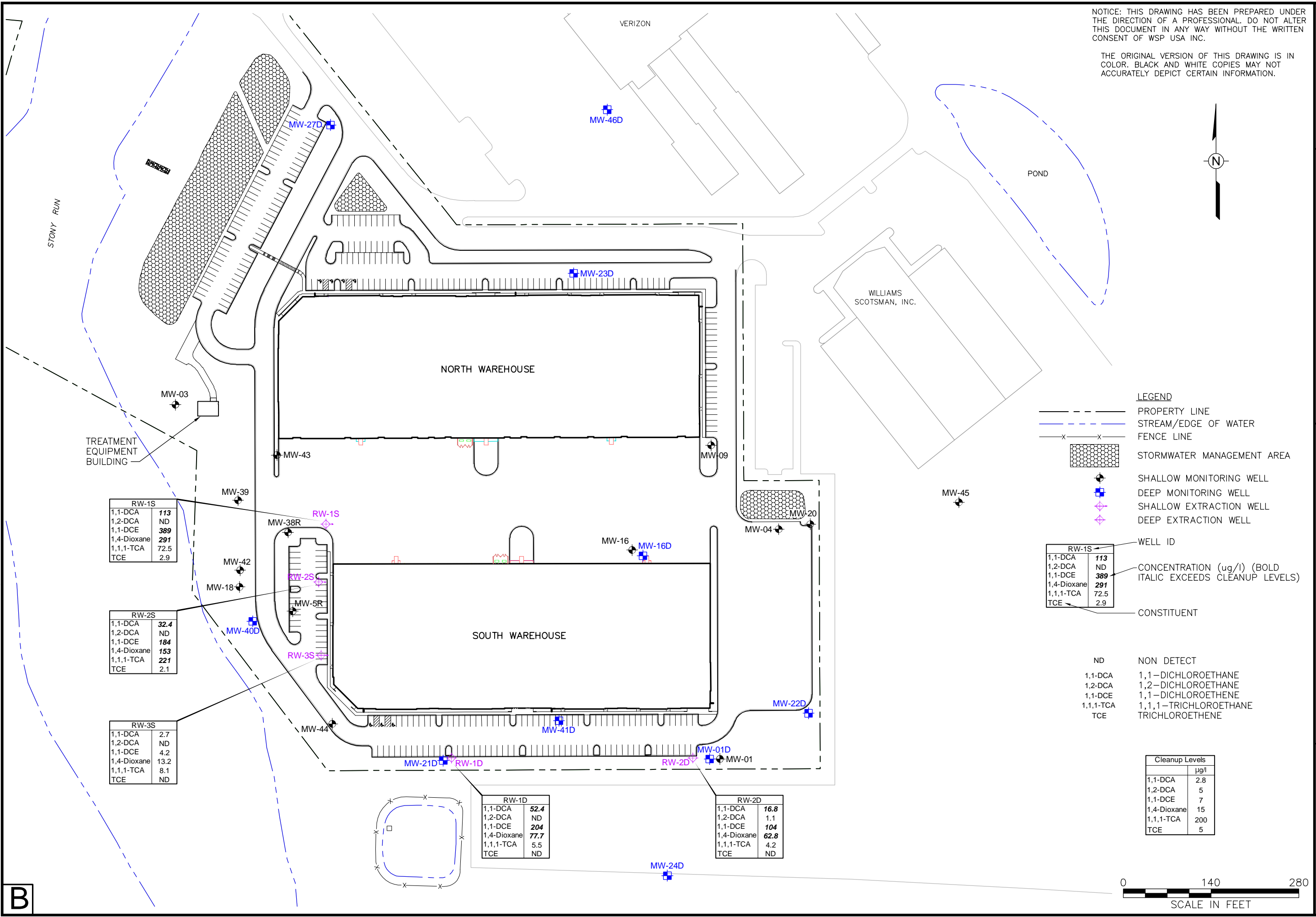
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FIGURE 3
 POTENTIOMETRIC SURFACE CONTOUR MAP
 FOR THE DEEP ZONE OF THE
 LOWER PATAPSCO AQUIFER (MAY 2021)

WSP USA Inc.
 13550 DULLES TECHNOLOGY DR
 SUITE 300
 HERNDON, VA 20171
 TEL: +1 703.709.6500

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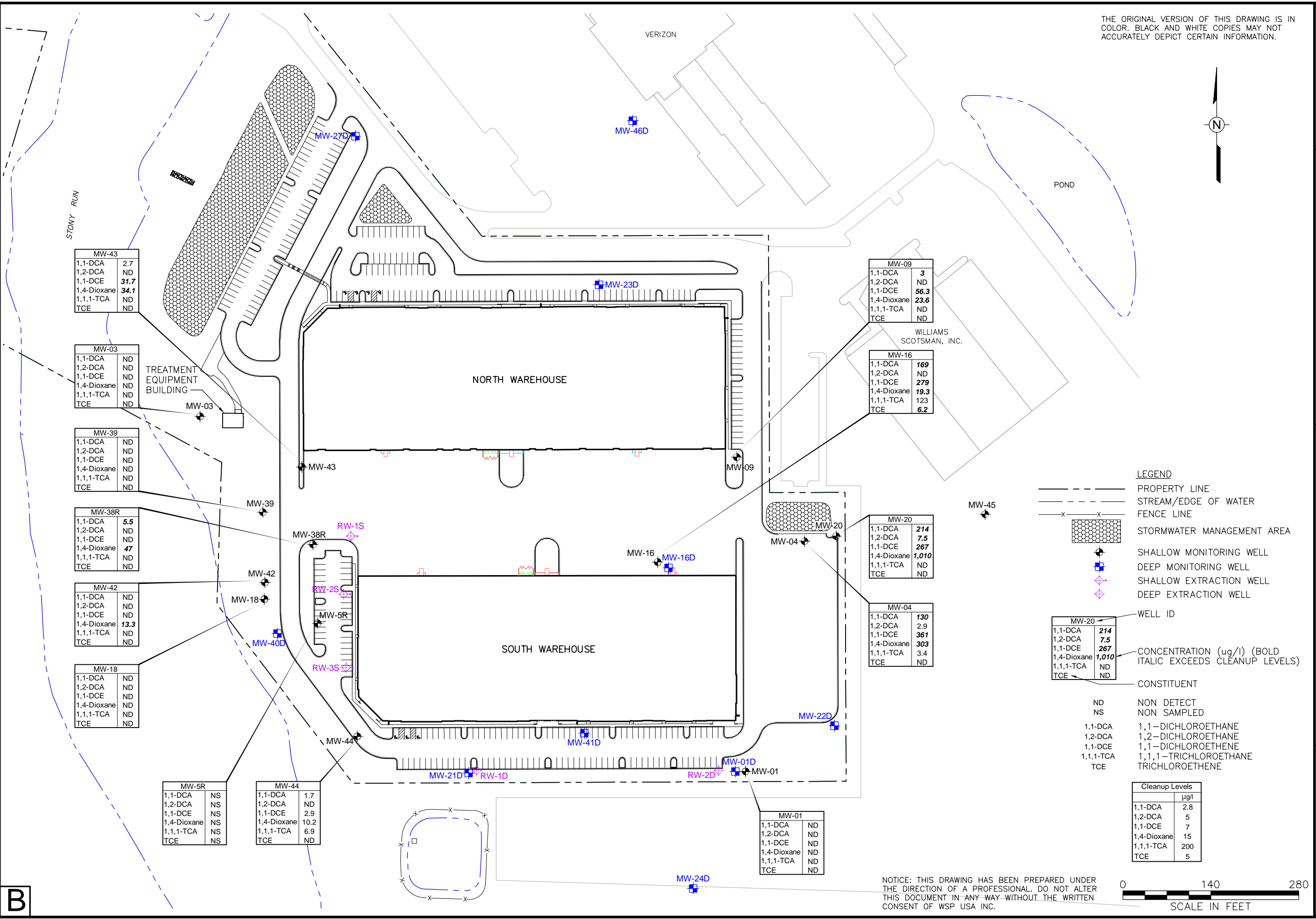
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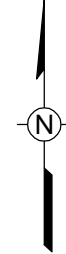
FIGURE 4
GROUNDWATER RECOVERY WELL RESULTS
(MAY 2021)

WSP USA Inc.
13530 DULLES TECHNOLOGY DR
SUITE 300
HERNDON, VA 20171
TEL: +1 703.769.6500

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FIGURE 5
SAMPLING RESULTS FOR THE MONITORING WELLS
SCREENED IN THE SHALLOW ZONE OF THE
LOWER PATAPSCO AQUIFER (MAY 2021)

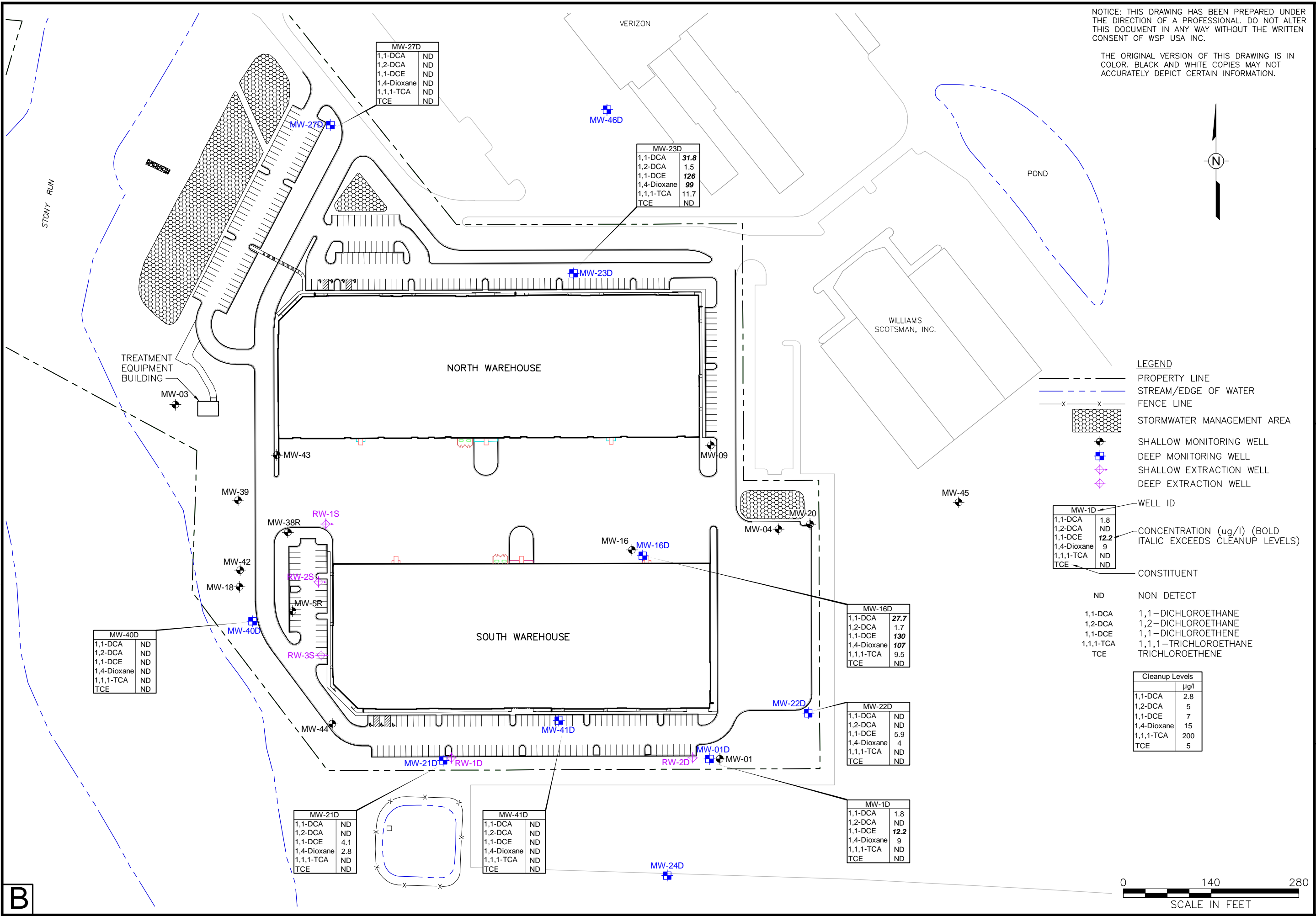
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FIGURE 6
 SAMPLING RESULTS FOR THE MONITORING WELLS
 SCREENED IN THE DEEP ZONE OF THE
 LOWER PATAPSCO AQUIFER (MAY 2021)

TABLES

Table 1

**Organic Matter Pre-Treatment Evaluation
Ion Exchange Test Column Analytical Results
Former Kop-Flex Facility Site
Hanover, Maryland (a)**

Parameters	Date:	Week 1						Week 2					
		4/12/2021		4/14/2021		4/16/2021		4/19/2021		4/21/2021		4/23/2021	
		3.0		314.7		649.5		1,110.4		1,400.2		1,706.6	
Totalizer (gal, b):	Column Influent	Column Effluent	Column Influent	Column Effluent	Column Influent	Column Effluent	Column Influent	Column Effluent	Column Influent	Column Effluent	Column Influent	Column Effluent	
TOC (mg/L)		0.82	0.50 U	0.91	0.85	0.83	0.73	0.94	0.76	0.72	0.68	0.75	0.72
Tannins & lignins (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dioxane (µg/L)		79	75	--	--	--	--	87	86	--	--	--	--
VOCs (µg/L)													
1,1,1-Trichloroethane		20	21	--	--	--	--	110	69	--	--	--	--
1,1,2-Trichloroethane		0.20 U	0.20 U	--	--	--	--	0.70	0.63	--	--	--	--
1,1-Dichloroethane		36	38	--	--	--	--	290	220	--	--	--	--
1,1-Dichloroethene		210	210	--	--	--	--	1,100	540	--	--	--	--
1,2-Dichloroethane		1.6	1.6	--	--	--	--	7.2	6.8	--	--	--	--
2-Butanone		3.2	17	--	--	--	--	0.30 U	3.9	--	--	--	--
Acetone		0.70 U	11	--	--	--	--	0.70 U	0.70 U	--	--	--	--
Chloroethane		3.4	3.9	--	--	--	--	48	32	--	--	--	--
Chloroform		0.20 U	0.20 U	--	--	--	--	1.6	1.0	--	--	--	--
cis-1,2-Dichloroethene		0.92	1.1	--	--	--	--	11	6.9	--	--	--	--
Methyl tertiary butyl ether		0.38	0.40	--	--	--	--	2.6	3.5	--	--	--	--
Methylene Chloride		0.30 U	0.30 U	--	--	--	--	3.5	2.9	--	--	--	--
Tetrachloroethene		0.20 U	0.20 U	--	--	--	--	0.32	0.23	--	--	--	--
Trichloroethene		0.69	0.56	--	--	--	--	4.7	1.9	--	--	--	--
Vinyl chloride		0.21	0.52	--	--	--	--	4.3	2.3	--	--	--	--

Notes:

a/ TOC = total organic carbon; VOC = volatile organic compound; U = parameter not detected about the method detection limit; -- = parameter not analyzed.

gal = gallons; mg/L = milligrams per liter; µg/L = micrograms per liter; SM = Standard Method; EPA = US Environmental Protection Agency.

TOC analyzed using SM 5550B; tannins and lignins analyzed using SM 5310C; 1,4-dioxane analyzed using EPA SW-846 Test Method 8260C with Selected Ion Monitoring;

VOCs analyzed using EPA SW-846 Test Method 8260C. Only detected VOCs are listed.

b/ A digital flow meter/totalizer was used to monitor the instantaneous flow rate and the total volume of water processed by the column during the treatability test. The flow rate was maintained at approximately 440 milliliters per minute for the duration of the test. The totalizer reading was recorded each day just prior to sample collection.

Table 1

Organic Matter Pre-Treatment Evaluation
 Ion Exchange Test Column Analytical Results
 Former Kop-Flex Facility Site
 Hanover, Maryland (a)

Parameters	Date:	Week 3						Week 4					
		4/26/2021		4/28/2021		4/30/2021		5/3/2021		5/5/2021		5/7/2021	
		2,126.1		2,382.4		2,637.9		2,892.2		3,159.0		3,327.4	
Totalizer (gal, b):	Column Influent	Column Effluent	Column Influent	Column Effluent	Column Influent	Column Effluent	Column Influent	Column Effluent	Column Influent	Column Effluent	Column Influent	Column Effluent	
TOC (mg/L)		0.94	0.96	0.74	1.3	0.76	0.77	1.5	1.4	1.4	1.4	1.5	1.4
Tannins & lignins (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dioxane (µg/L)		80	89	--	--	--	--	77	88	--	--	--	--
VOCs (µg/L)													
1,1,1-Trichloroethane		17	18	--	--	--	--	16	17	--	--	--	--
1,1,2-Trichloroethane		0.20 U	0.20 U	--	--	--	--	0.20 U	0.20 U	--	--	--	--
1,1-Dichloroethane		40	40	--	--	--	--	39	39	--	--	--	--
1,1-Dichloroethene		190	190	--	--	--	--	200	200	--	--	--	--
1,2-Dichloroethane		1.4	1.4	--	--	--	--	1.3	1.3	--	--	--	--
2-Butanone		0.30 U	0.30 U	--	--	--	--	0.30 U	0.30 U	--	--	--	--
Acetone		0.70 U	0.70 U	--	--	--	--	0.70 U	0.70 U	--	--	--	--
Chloroethane		3.8	3.8	--	--	--	--	4.1	4.0	--	--	--	--
Chloroform		0.22	0.22	--	--	--	--	0.20 U	0.20 U	--	--	--	--
cis-1,2-Dichloroethene		1.2	1.3	--	--	--	--	0.20 U	1.4	--	--	--	--
Methyl tertiary butyl ether		0.55	0.57	--	--	--	--	0.48	0.50	--	--	--	--
Methylene Chloride		0.33	0.34	--	--	--	--	0.30 U	0.30 U	--	--	--	--
Tetrachloroethene		0.22	0.20 U	--	--	--	--	0.23	0.28	--	--	--	--
Trichloroethene		0.20 U	0.91	--	--	--	--	0.94	1.0	--	--	--	--
Vinyl chloride		0.38	0.35	--	--	--	--	0.45	0.46	--	--	--	--

Notes:

a/ TOC = total organic carbon; VOC = volatile organic compound; U = parameter not detected about the method detection limit; -- = parameter not analyzed.

gal = gallons; mg/L = milligrams per liter; µg/L = micrograms per liter; SM = Standard Method; EPA = US Environmental Protection Agency.

TOC analyzed using SM 5550B; tannins and lignins analyzed using SM 5310C; 1,4-dioxane analyzed using EPA SW-846 Test Method 8260C with Selected Ion Monitoring;

VOCs analyzed using EPA SW-846 Test Method 8260C. Only detected VOCs are listed.

b/ A digital flow meter/totalizer was used to monitor the instantaneous flow rate and the total volume of water processed by the column during the treatability test. The flow rate was maintained at approximately 440 milliliters per minute for the duration of the test. The totalizer reading was recorded each day just prior to sample collection.

Table 2

**Historical Water Level Measurements in
Onsite Monitoring Wells and Recovery Well Piezometers
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 to May 2021) (a)**

Well ID	Zone	TOC elevation	12/7/2016 (b)		2/1/2017 (b)		3/21/2017		4/7/2017		4/10/2017	
			Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-01	Shallow	129.8	NM	-	15.98	113.82	16.16	113.64	15.93	113.87	15.95	113.85
MW-03	Shallow	113.6	6.78	106.82	6.83	106.77	6.79	106.81	6.41	107.19	6.76	106.84
MW-04	Shallow	124.4	12.28	112.12	11.14	113.26	11.17	113.23	11.05	113.35	11.09	113.31
MW-5R	Shallow	123.5	15.87	107.63	13.49	110.01	15.98	107.52	16.15	107.35	16.38	107.12
MW-09	Shallow	125.1	10.84	114.26	11.30	113.80	11.51	113.59	11.41	113.69	11.41	113.69
MW-16	Shallow	124.0	10.92	113.08	11.12	112.88	11.66	112.34	11.74	112.26	11.81	112.19
MW-18	Shallow	125.1	20.77	104.33	20.84	104.26	22.85	102.25	22.85	102.25	23.11	101.99
MW-20	Shallow	125.4	NM	-	12.24	113.16	12.5	112.90	12.33	113.07	12.31	113.09
MW-38R	Shallow	125.4	15.58	109.82	15.76	109.64	19.64	105.76	19.6	105.80	20.81	104.59
MW-39	Shallow	124.6	NM	-	20.96	103.64	22.64	101.96	22.55	102.05	21.86	102.74
MW-42	Shallow	125.9	16.18	109.72	16.26	109.64	19.28	106.62	19.33	106.57	19.52	106.38
MW-43	Shallow	122.8	19.25	103.55	19.31	103.49	20.68	102.12	20.31	102.49	20.61	102.19
MW-44	Shallow	127.1	14.93	112.17	15.25	111.85	17.7	109.40	17.08	110.02	17.18	109.92
MW-45	Shallow	126.7	NM	-	NM	-	14.1	112.62	13.85	112.87	13.85	112.87
RW-1S	Shallow	122.9	12.96	109.94	13.17	109.73	12.96	109.94	20.36	102.54	20.6	102.30
RW-2S	Shallow	123.5	14.12	109.38	14.02	109.48	28.55	94.95	28.88	94.62	29.81	93.69
RW-3S	Shallow	125.4	14.29	111.11	14.24	111.16	20.34	105.06	23.49	101.91	23.59	101.81
MW-1D	Deep	129.4	42.81	86.59	42.22	87.18	56.15	73.25	56.06	73.34	56.22	73.18
MW-16D	Deep	124.1	34.91	89.19	34.72	89.38	37.55	86.55	37.6	86.50	38.02	86.08
MW-21D	Deep	126.3	37.8	88.50	37.59	88.71	47.12	79.18	47.26	79.04	47.57	78.73
MW-22D	Deep	128.9	40.78	88.07	40.49	88.36	43.28	85.57	43.3	85.55	43.59	85.26
MW-23D	Deep	125.2	35.14	90.06	34.74	90.46	36.33	88.87	36.29	88.91	36.72	88.48
MW-24D	Deep	129.1	46.3	82.80	45.73	83.37	47.44	81.66	47.71	81.39	48	81.10
MW-27D	Deep	117.2	29.66	87.54	26.78	90.42	27.73	89.47	27.68	89.52	28.18	89.02
MW-40D	Deep	124.1	35.14	88.96	34.94	89.16	37.19	86.91	37.51	86.59	37.98	86.12
MW-41D	Deep	127.1	41.98	85.12	41.44	85.66	44.00	83.10	44.06	83.04	44.48	82.62
MW-46D	Deep	124.8	NM	-	NM	-	NM	-	NM	-	NM	-
RW-1D	Deep	126.9	38.53	88.37	38.19	88.71	58.69	68.21	59.02	67.88	59.06	67.84
RW-2D	Deep	127.4	42.31	85.09	41.62	85.78	68.82	58.58	68.51	58.89	68.39	59.01

a/ Vertical datum is NAVD-88

NM = not measured

TOC = top of casing

NA = not available because the well had not been installed

Light gray shading denotes wells screened in the shallow (unconfined) zone; blue shading denotes wells screened in the deep (confined) zone.

Continuous pumping of the groundwater recovery well system started on March 29, 2017.

Water levels from both shallow and deep recovery wells were measured in piezometers co-located with the wells.

b/ Water level measurements representative of non-pumping conditions in the aquifer system.

Table 2

**Historical Water Level Measurements in
Onsite Monitoring Wells and Recovery Well Piezometers
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 to May 2021) (a)**

Well ID	Zone	TOC elevation	4/13/2017		4/17/2017		5/1/2017		5/8/2017		8/31/2017	
			Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-01	Shallow	129.8	15.94	113.86	15.90	113.90	15.92	113.88	15.81	113.99	15.49	114.31
MW-03	Shallow	113.6	6.91	106.69	6.90	106.70	6.96	106.64	6.87	106.73	7.59	106.01
MW-04	Shallow	124.4	11.06	113.34	11.13	113.27	10.95	113.45	10.91	113.49	10.66	113.74
MW-5R	Shallow	123.5	16.45	107.05	16.47	107.03	16.60	106.90	16.60	106.90	16.90	106.60
MW-09	Shallow	125.1	11.51	113.59	11.48	113.62	11.41	113.69	11.34	113.76	11.09	114.01
MW-16	Shallow	124.0	11.82	112.18	12.08	111.92	11.99	112.01	11.81	112.19	11.90	112.10
MW-18	Shallow	125.1	23.18	101.92	23.19	101.91	23.30	101.80	23.28	101.82	24.63	100.47
MW-20	Shallow	125.4	12.3	113.10	13.38	112.02	13.01	112.39	12.24	113.16	12.39	113.01
MW-38R	Shallow	125.4	19.81	105.59	19.84	105.56	19.94	105.46	19.96	105.44	20.16	105.24
MW-39	Shallow	124.6	23	101.60	23.01	101.59	23.05	101.55	23.00	101.60	24.51	100.09
MW-42	Shallow	125.9	19.49	106.41	19.55	106.35	19.68	106.22	19.67	106.23	19.95	105.95
MW-43	Shallow	122.8	21.81	100.99	20.92	101.88	21.11	101.69	20.90	101.90	21.73	101.07
MW-44	Shallow	127.1	17.35	109.75	17.23	109.87	17.31	109.79	17.27	109.83	17.18	109.92
MW-45	Shallow	126.7	13.85	112.87	13.75	112.97	13.67	113.05	13.60	113.12	13.20	113.52
RW-1S	Shallow	122.9	20.56	102.34	20.60	102.30	20.80	102.10	20.79	102.11	21.49	101.41
RW-2S	Shallow	123.5	29	94.50	29.14	94.36	29.61	93.89	29.74	93.76	32.10	91.40
RW-3S	Shallow	125.4	23.69	101.71	23.73	101.67	24.32	101.08	24.46	100.94	26.20	99.20
MW-1D	Deep	129.4	56.44	72.96	56.37	73.03	56.40	73.00	56.29	73.11	56.70	72.70
MW-16D	Deep	124.1	38.1	86.00	37.94	86.16	37.98	86.12	38.08	86.02	41.1	83.00
MW-21D	Deep	126.3	47.61	78.69	47.58	78.72	47.54	78.76	47.61	78.69	56.7	69.60
MW-22D	Deep	128.9	43.76	85.09	43.73	85.12	43.82	85.03	43.81	85.04	46.71	82.14
MW-23D	Deep	125.2	36.81	88.39	36.61	88.59	36.71	88.49	36.77	88.43	39.9	85.30
MW-24D	Deep	129.1	48.16	80.94	48.29	80.81	48.35	80.75	48.37	80.73	55.82	73.28
MW-27D	Deep	117.2	28.3	88.90	28.03	89.17	28.21	88.99	28.21	88.99	31.11	86.09
MW-40D	Deep	124.1	37.98	86.12	37.85	86.25	38.01	86.09	38.04	86.06	41.00	83.10
MW-41D	Deep	127.1	44.56	82.54	44.43	82.67	44.61	82.49	44.62	82.48	49.18	77.92
MW-46D	Deep	124.8	NM	-	NM	-	NM	-	NM	-	NM	-
RW-1D	Deep	126.9	59.02	67.88	59.26	67.64	58.88	68.02	58.99	67.91	60.23	66.67
RW-2D	Deep	127.4	68.78	58.62	68.63	58.77	68.70	58.70	68.44	58.96	70.11	57.29

a/ Vertical datum is NAVD-88

NM = not measured

TOC = top of casing

NA = not available because the well had not been installed

Light gray shading denotes wells screened in the shallow (unconfined) zone; blue shading denotes wells screened in the deep (confined) zone.

Continuous pumping of the groundwater recovery well system started on March 29, 2017.

Water levels from both shallow and deep recovery wells were measured in piezometers co-located with the wells.

b/ Water level measurements representative of non-pumping conditions in the aquifer system.

Table 2

**Historical Water Level Measurements in
Onsite Monitoring Wells and Recovery Well Piezometers
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 to May 2021) (a)**

Well ID	Zone	TOC elevation	10/25/2017		11/14/2017		5/30/2018		11/7/2018		5/21/2019	
			Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-01	Shallow	129.8	NA	NA	14.17	115.63	15.52	114.28	13.99	115.81	13.98	115.82
MW-03	Shallow	113.6	NA	NA	7.27	106.33	7.17	106.43	6.43	107.17	7.08	106.52
MW-04	Shallow	124.4	NA	NA	10.97	113.43	10.19	114.21	9.16	115.24	8.80	115.60
MW-5R	Shallow	123.5	NA	NA	16.78	106.72	15.89	107.61	15.51	107.99	15.74	107.76
MW-09	Shallow	125.1	NA	NA	NA	NA	10.78	114.32	9.16	115.94	9.61	115.49
MW-16	Shallow	124.0	NA	NA	12.00	112.00	11.76	112.24	10.96	113.04	9.37	114.63
MW-18	Shallow	125.1	NA	NA	24.41	100.69	23.80	101.30	23.13	101.97	22.97	102.13
MW-20	Shallow	125.4	NA	NA	11.98	113.42	12.15	113.25	11.74	113.66	10.64	114.76
MW-38R	Shallow	125.4	NA	NA	19.93	105.47	19.35	106.05	18.67	106.73	19.13	106.27
MW-39	Shallow	124.6	NA	NA	23.93	100.67	23.72	100.88	23.09	101.51	23.00	101.60
MW-42	Shallow	125.9	NA	NA	19.82	106.08	19.16	106.74	18.55	107.35	18.91	106.99
MW-43	Shallow	122.8	NA	NA	21.66	101.14	20.47	102.33	20.60	102.20	21.46	101.34
MW-44	Shallow	127.1	NA	NA	17.00	110.10	16.32	110.78	15.78	111.32	15.91	111.19
MW-45	Shallow	126.7	NA	NA	13.80	112.92	12.98	113.74	12.00	114.72	11.75	114.97
RW-1S	Shallow	122.9	NA	NA	21.98	100.92	22.88	100.02	23.97	98.93	26.42	96.48
RW-2S	Shallow	123.5	NA	NA	30.76	92.74	28.37	95.13	27.48	96.02	31.16	92.34
RW-3S	Shallow	125.4	NA	NA	28.47	96.93	26.91	98.49	24.39	101.01	22.10	103.30
MW-1D	Deep	129.4	58.17	71.23	58.09	71.31	58.03	71.37	57.22	72.18	56.55	72.85
MW-16D	Deep	124.1	40.71	83.39	40.63	83.47	40.37	83.73	39.33	84.77	38.30	85.80
MW-21D	Deep	126.3	50.61	75.69	50.53	75.77	50.38	75.92	49.61	76.69	48.38	77.92
MW-22D	Deep	128.9	46.74	82.11	46.25	82.60	46.30	82.55	35.31	93.54	44.02	84.83
MW-23D	Deep	125.2	39.21	85.99	39.04	86.16	38.87	86.33	37.72	87.48	36.88	88.32
MW-24D	Deep	129.1	52.15	76.95	51.99	77.11	50.94	78.16	50.72	78.38	49.67	79.43
MW-27D	Deep	117.2	30.52	86.68	30.34	86.86	30.20	87.00	29.17	88.03	28.15	89.05
MW-40D	Deep	124.1	40.75	83.35	40.50	83.60	40.44	83.66	39.60	84.50	38.50	85.60
MW-41D	Deep	127.1	47.94	79.16	47.71	79.39	47.56	79.54	46.56	80.54	45.42	81.68
MW-46D	Deep	124.8	NM	-	NM	-	37.37	87.40	32.65	92.12	35.47	89.30
RW-1D	Deep	126.9	62.62	64.28	63.62	63.28	62.75	64.15	62.97	63.93	62.44	64.46
RW-2D	Deep	127.4	68.90	58.50	68.95	58.45	69.21	58.19	68.34	59.06	68.19	59.21

a/ Vertical datum is NAVD-88

NM = not measured

TOC = top of casing

NA = not available because the well had not been installed

Light gray shading denotes wells screened in the shallow (unconfined) zone; blue shading denotes wells screened in the deep (confined) zone.

Continuous pumping of the groundwater recovery well system started on March 29, 2017.

Water levels from both shallow and deep recovery wells were measured in piezometers co-located with the wells.

b/ Water level measurements representative of non-pumping conditions in the aquifer system.

Table 2

**Historical Water Level Measurements in
Onsite Monitoring Wells and Recovery Well Piezometers
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 to May 2021) (a)**

Well ID	Zone	TOC elevation	11/19/2019		5/12/2020		11/22/2020		5/9/2021	
			Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-01	Shallow	129.8	16.47	113.33	15.67	114.13	15.58	114.22	14.75	115.05
MW-03	Shallow	113.6	7.02	106.58	6.09	107.51	6.1	107.50	6.4	107.20
MW-04	Shallow	124.4	11.07	113.33	11.00	113.40	10.85	113.55	9.75	114.65
MW-5R	Shallow	123.5	16.61	106.89	16.55	106.95	15.84	107.66	NM	-
MW-09	Shallow	125.1	12.00	113.10	11.57	113.53	11.23	113.87	10.35	114.75
MW-16	Shallow	124.0	12.43	111.57	11.66	112.34	11.68	112.32	11.15	112.85
MW-18	Shallow	125.1	21.12	103.98	23.10	102.00	23.80	101.30	26.71	98.39
MW-20	Shallow	125.4	12.98	112.42	12.57	112.83	12.11	113.29	11.22	114.18
MW-38R	Shallow	125.4	19.83	105.57	19.03	106.37	19.25	106.15	18.55	106.85
MW-39	Shallow	124.6	23.94	100.66	23.04	101.56	23.52	101.08	22.98	101.62
MW-42	Shallow	125.9	19.44	106.46	18.85	107.05	NM	-	17.98	107.92
MW-43	Shallow	122.8	22.04	100.76	20.98	101.82	21.91	100.89	21.02	101.78
MW-44	Shallow	127.1	17.24	109.86	16.30	110.80	16.52	110.58	16.26	110.84
MW-45	Shallow	126.7	14.55	112.17	NM	-	13.61	113.11	12.69	114.03
RW-1S	Shallow	122.9	28.64	94.26	29.16	93.74	28.13	94.77	25.00	97.90
RW-2S	Shallow	123.5	31.70	91.80	33.33	90.17	35.31	88.19	34.85	88.65
RW-3S	Shallow	125.4	23.24	102.16	22.85	102.55	26.72	98.68	25.36	100.04
MW-1D	Deep	129.4	59.49	69.91	57.17	72.23	59.91	69.49	57.46	71.94
MW-16D	Deep	124.1	40.99	83.11	38.67	85.43	39.97	84.13	38.81	85.29
MW-21D	Deep	126.3	50.75	75.55	48.50	77.80	50.37	75.93	48.64	77.66
MW-22D	Deep	128.9	46.20	82.65	44.05	84.80	46.55	82.30	44.72	84.13
MW-23D	Deep	125.2	39.40	85.80	37.16	88.04	39.22	85.98	37.36	87.84
MW-24D	Deep	129.1	51.12	77.98	48.80	80.30	53.02	76.08	50.01	79.09
MW-27D	Deep	117.2	30.68	86.52	28.64	88.56	30.62	86.58	28.89	88.31
MW-40D	Deep	124.1	41.16	82.94	38.59	85.51	40.97	83.13	39.00	85.10
MW-41D	Deep	127.1	48.50	78.60	45.28	81.82	48.65	78.45	45.95	81.15
MW-46D	Deep	124.8	37.90	86.87	35.73	89.04	37.72	87.05	35.95	88.82
RW-1D	Deep	126.9	64.86	62.04	NM	-	NM	-	NM	-
RW-2D	Deep	127.4	71.36	56.04	69.35	58.05	69.72	57.68	69.41	57.99

a/ Vertical datum is NAVD-88

NM = not measured

TOC = top of casing

NA = not available because the well had not been installed

Light gray shading denotes wells screened in the shallow (unconfined) zone; blue shading denotes wells screened in the deep (confined) zone.

Continuous pumping of the groundwater recovery well system started on March 29, 2017.

Water levels from both shallow and deep recovery wells were measured in piezometers co-located with the wells.

b/ Water level measurements representative of non-pumping conditions in the aquifer system.

Table 3
May 2021 Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland (a)

Well ID:	Shallow Zone Wells														Deep Zone Wells									
	MW-01	MW-03	MW-04	MW-5R	MW-09	MW-16	MW-18	MW-20	Duplicate	MW-38R	MW-39	MW-42	MW-43	MW-44	MW-1D	MW-16D	Duplicate	MW-21D	MW-22D	MW-23D	MW-27D	MW-40D	MW-41D	
Parameters	Groundwater Cleanup Standards (µg/L) (b)																							
Chloroethane	2,100	1 U	1 U	2.5 U	NS	1 U	4.2	1 U	2 U	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	2.8	1 U	1 U	130	NS	3	169	1 U	214	207	5.5	1 U	1 U	2.7	1.7	1.8	27.7	26.4	1 U	1 U	31.8	1 U	1 U	1 U
1,2-Dichloroethane	5	1 U	1 U	2.9	NS	1 U	2 U	1 U	7.5	7.9	1 U	1 U	1 U	1 U	1 U	1 U	1.7	1.6	1 U	1 U	1.5	1 U	1 U	1 U
1,1-Dichloroethene	7	1 U	1 U	361	NS	56.3	276	1 U	267	262	1 U	1 U	1 U	31.7	2.9	12.2	130	117	4.1	5.9	126	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1 U	1 U	2.5 U	NS	1 U	2.1	1 U	2.2	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	15 (c)	2 U	2 U	303	NS	23.6	19.3	2 U	1,010	955	47	2 U	13.3	34.1	10.2	9.0	107	111	2.8	4.0	99	2 U	2 U	1 U
2-Butanone (MEK)	560	5 U	5 U	12.5 U	NS	5 U	24.6	5 U	4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	20	1 U	1 U	2.5 U	NS	1 U	2 U	1 U	2 U	2.5 U	1 U	1 U	1 U	2.7	1 U	1 U	1 U	1 U	2.6	1 U	1 U	1 U	2.7	1 U
Tetrachloroethene	5	1 U	1 U	2.5 U	NS	1 U	2.2	1 U	2 U	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	1 U	1 U	3.4	NS	1 U	123	1 U	2 U	2.5 U	1 U	1 U	1 U	1 U	6.9	1 U	9.5	8.7	1 U	1 U	11.7	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	2.5 U	NS	1 U	6.2	1 U	2 U	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

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

Bolded values indicate an exceedence of the Groundwater Quality Standards

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

b/ All cleanup standards, except for 1,4-dioxane, are equal to the Maryland Generic Numeric Cleanup Standards for Groundwater

Type I and II Aquifers, from the State of Maryland Interim Final Guidance (October 2018). Accessed May 27, 2020

<https://mde.maryland.gov/programs/LAND/MarylandBrownfieldVCP/Documents/www.mde.state.md.us/assets/docur>

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

Table 4

May 2021 Recovery Well Sampling Results
Former Kop-Flex Facility
Hanover, Maryland (a)

Parameters	<u>Groundwater Cleanup Standards (µg/L) (b)</u>	<u>Shallow Zone Wells</u>			<u>Deep Zone Wells</u>	
		Well ID: <u>RW-1S</u>	<u>RW-2S</u>	<u>RW-3S</u>	<u>RW-1D</u>	<u>RW-2D</u>
VOCs						
Chloroethane	2,100	15.0	2 U	1 U	5.9	1 U
1,1-Dichloroethane	2.8	113	32.4	2.7	52.4	16.8
1,2-Dichloroethane	5	2.5 U	2 U	1 U	2 U	1.1
1,1-Dichloroethene	7	389	184	4.2	204	104
cis-1,2-Dichloroethene	70	2.9	2 U	1 U	2.3	1 U
1,4-Dioxane	15 (c)	291	153	13.2	77.7	62.8
1,1,1-Trichloroethane	200	72.5	221	8.1	5.5	4.2
Trichloroethene	5	2.9	2.1	1 U	2 U	1 U
Vinyl chloride	2	4.2	2 U	1 U	2 U	1 U

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/ All cleanup standards, except for 1,4-dioxane, are equal to the Maryland Generic Numeric Cleanup Standards for Groundwater, Type I and II Aquifers, from the State of Maryland Interim Final Guidance (October 2018). Accessed May 27, 2020: <https://mde.maryland.gov/programs/LAND/MarylandBrownfieldVCP/Documents/www.mde.state.md.us/assets/docu>

Table 5

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - May 2021) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-01	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-03	12/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.6	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-04	12/7/2016	10.0 U	259	10.0 U	1,020	10.0 U	576	20.0 U	4.0 U	31.7	10.0 U	10.0 U	10.0 U
	5/2/2017	4.0 U	103	4.0 U	459	4.0 U	252	8.0 U	4.0 U	13.0	4.0 U	4.0 U	4.0 U
	11/15/2017	5.0 U	29.2	1.0 J	151	1.0 U	121	10.5	0.687 J	4.3	1.0 U	1.4	1.0 U
	5/30/2018	1.0 U	33.3	1.0 U	153	1.0 U	92.7	2.0 U	1.0 U	4.0	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	23.3	1.0 U	89.9	1.0 U	1.0 U	2.0 U	1.0 U	1.6	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	57.7	1.1	142	1.0 U	111	5.0 U	1.0 U	1.7	1.0 U	1.1	1.0 U
	11/19/2019	1.0 U	45.1	1.1	126	1.0 U	94.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/13/2020	1.0 U	58.6	1.3	149	1.0 U	84.6	5.0 U	1.0 U	1.4	1.2	1.2	1.0 U
	11/22/2020	1.0 U	62.0	1.6	141	1.0 U	151	5.0 U	1.0 U	1.0 U	1.0 U	1.2	1.0 U
	5/9/2021	2.5 U	130	2.9	361	2.5 U	303	12.5 U	2.5 U	3.4	2.5 U	2.5 U	2.5 U
MW-5R	12/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	16.5	2.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.4	1.0 U	1.4	1.0 U	16.5	2.0 U	1.0 U	2.7	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	1.6	1.0 U	2.5	1.0 U	11.0	10.2	1.0 U	1.7	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.8	1.0 U	2.7	1.0 U	11.5	2.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	1.3	1.0 U	2.0 U	2.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.6	5.0 U	1.0 U	1.9	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.8	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	1.8	1.0 U	1.7	1.0 U	13.4	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 5

**Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - May 2021) (a)**

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-09	12/8/2016	1.0 U	4.5	1.0 U	104	1.0 U	95.5	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	2.9	1.0 U	63.8	1.0 U	20.8	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	3.1	0.4 J	60.2	1.0 U	32.4	5.0 U	1.0 U	0.7 J	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	2.2	1.0 U	49.2	1.0 U	23.4	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	4.5	1.0 U	75.9	1.0 U	37.4	2.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	3.6	1.0 U	70.8	1.0 U	32.8	5.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	2.6	1.0 U	48.7	1.0 U	24.4	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/13/2020	1.0 U	2.6	1.0 U	50.5	1.0 U	18.7	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	2.5	1.0 U	56.4	1.0 U	25.7	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
5/9/2021	1.0 U	3.0	1.0 U	56.3	1.0 U	23.6	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
MW-16	12/8/2016	200 U	6,420	200 U	26,200	200 U	1,450	400 U	100 U	4,390	200 U	200 U	200 U
	5/2/2017	225	7,910	100 U	10,500	100 U	971	200 U	100 U	8,930	100 U	100 U	100 U
	11/15/2017	732	7,110	22	7,740	46	836	11	18.4	5,590	1.0 U	69	19
	5/30/2018	249	6,250	50 U	4,690	50 U	636	100 U	50 U	7,360	50 U	50 U	50 U
	11/7/2018	275	7,360	50 U	7,800	50 U	866	100 U	50 U	6,420	50 U	74.2	50 U
	5/22/2019	10 U	343	10 U	1,160	10 U	1,230	50 U	10 U	216	10 U	13.7	10 U
	11/19/2019	23.4	608	10 U	1,440	10 U	81.9	50 U	10 U	314	10 U	18.3	10 U
	5/13/2020	10.9	394	5 U	571	5 U	39.2	5 U	5 U	487	5 U	10.7	5 U
	11/22/2020	20.0 U	1,560	20 U	1,130	20 U	84.2	100 U	20 U	2,060	5 U	20.0 U	20 U
5/9/2021	4.2	169	2 U	276	2.1	19.3	10 U	2.2	123	2 U	6.2	2 U	
MW-18	12/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	24.9	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	

Table 5

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - May 2021) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-20	12/9/2016	2.0 U	99.7	5.1	173	2.0 U	767	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	5/2/2017	2.0 U	161	7.3	286	2.0 U	967	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	11/15/2017	5.0 U	136	5.7	223	1.4	969	5.0 U	1.0 U	1.0 U	1.9	1.0 U	1.0 U
	5/30/2018	2.0 U	115	5.5	205	2.0 U	966	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	11/7/2018	2.5 U	145	6.3	233	2.5 U	986	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
	5/21/2019	2.0 U	157	6.5	226	2.0 U	1,620	10.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	11/19/2019	2.0 U	175	7.5	244	2.0 U	1,220	10.0 U	2.0 U	2.0 U	2.1	2.0 U	2.0 U
	5/13/2020	2.0 U	188	7.7	232	2.0 U	1,000	10.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	11/22/2020	2.0 U	205	7.5	272	2.0 U	1,260	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	5/9/2021	2.0 U	214	7.5	267	2.2	1,010	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
MW-38R	12/9/2016	1.0 U	3.8	1.0 U	1.0 U	1.0 U	18.3	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	6.0	1.0 U	1.0 U	1.0 U	42.6	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	8.3	1.0 U	1.0 U	1.0 U	62.5	8.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	4.3	1.0 U	1.0 U	1.0 U	40.7	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	6.9	1.0 U	1.0 U	1.0 U	39.4	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	4.7	1.0 U	1.0 U	1.0 U	43.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	7.7	1.0 U	1.0 U	1.0 U	51.5	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	6.2	1.0 U	1.0 U	1.0 U	40.8	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	6.5	1.0 U	1.0 U	1.0 U	40.9	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	5.5	1.0 U	1.0 U	1.0 U	47.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-39	12/7/2016	1.0 U	1.0 U	1.0 U	1.7	1.0 U	2.5	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.0 U	1.0 U	1.1	1.0 U	3.0	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	1.0 U	1.0 U	0.6 J	1.0 U	2.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 5

**Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - May 2021) (a)**

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-42	12/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.8	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	19.3	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.4	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.3	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.6	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.6	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1/6/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	13.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	13.3	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-43	12/7/2016	2.0 U	15.9	2.1	171	2.0 U	237	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	5/1/2017	2.0 U	21.3	2.1	177	2.0 U	206	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	11/15/2017	5.0 U	15.9	1.3	159	1.0 U	165	5.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U
	5/30/2018	2.0 U	5.9	1.0 U	68	1.0 U	57.6	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	13.8	1.2	118	1.0 U	107	2.0 U	1.0 U	1.0 U	1.0 U	1.3	1.0 U
	5/21/2019	1.0 U	5.2	1.0 U	53.9	1.0 U	52.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	4.3	1.0 U	48.5	1.0 U	55.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	3.8	1.0 U	46.3	1.0 U	49.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	2.9	1.0 U	31.8	1.0 U	42.7	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	2.7	1.0 U	31.7	1.0 U	34.1	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-44	12/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	6.6	1.0 U	5.9	1.0 U	49.1	2.0 U	1.0 U	27.7	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.4	1.0 U	1.4	1.0 U	8.4	2.0 U	1.0 U	4.9	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	14.9	1.0 U	22.4	1.0 U	64.4	5.0 U	1.0 U	74.3	1.0 U	1.0 U	1.0 U
	5/13/2020	1.0 U	3.0	1.0 U	4.1	1.0 U	17.7	5.0 U	1.0 U	11.9	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.7	1.0 U	2.9	1.0 U	10.2	5.0 U	1.0 U	6.9	1.0 U	1.0 U	1.0 U

Table 5

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - May 2021) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-1D	1/2/2017	2.0 U	72	4.7	375	2.0 U	236	4.0 U	2.5 U	37.5	2.0 U	2.0 U	2.0 U
	5/3/2017	2.5 U	105	5.7	407	2.5 U	329	5.0 U	2.5 U	37.1	2.5 U	2.5 U	2.5 U
	11/15/2017	5.0 U	80	3.8	277	0.6 J	243	5.0 U	0.52 J	29.8	0.8 J	1.7	1 U
	5/30/2018	1.0 U	14.9	1.0 U	71.4	1.0 U	64.4	2.0 U	1.0 U	5.3	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	7.1	1.0 U	38.8	1.0 U	2.0 U	2.0 U	1.0 U	3.3	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	2.1	1.0 U	13.7	1.0 U	12.8	5.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	3.4	1.0 U	17.7	1.0 U	17.9	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/18/2020	1.0 U	2.6	1.0 U	16.5	1.0 U	12.8	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	3.1	1.0 U	17.6	1.0 U	16.9	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.8	1.0 U	12.2	1.0 U	9.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-16D	12/8/2016	2.0 U	56.6	2.9	254	2.0 U	202	4.0 U	2.0 U	21	2.0 U	2.0 U	2.0 U
	5/2/2017	2.0 U	43.7	2.9	235	2.0 U	182	4.0 U	2.0 U	16.4	2.0 U	2.0 U	2.0 U
	11/15/2017	5.0 U	29.7	1.9	179	0.3 J	192	10.0	1.0 U	15.1	0.5 J	0.9 J	1.0 U
	5/30/2018	1.0 U	26.4	1.6	180	1.0 U	153	2.0 U	1.0 U	10.3	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	27.5	1.8	161	1.0 U	158	2.0 U	1.0 U	12.5	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	28.5	2.1	172	1.0 U	148	5.0 U	1.0 U	14.5	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	25.6	1.7	133	1.0 U	140	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/13/2020	1.0 U	29.1	1.9	145	1.0 U	130	5.0 U	1.0 U	11.7	1.0 U	1.0 U	1.0 U
	12/8/2020	1.0 U	25.9	1.6	127	1.0 U	105	5.0 U	1.0 U	10.1	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	27.7	1.7	130	1.0 U	107	5.0 U	1.0 U	9.5	1.0 U	1.0 U	1.0 U
MW-21D	12/16/2016	1.0 U	2.6	1.0 U	23.4	1.0 U	18.6	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	6.9	1.4	111	1.0 U	57.5	2.0 U	1.0 U	2.3	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	2.0	1.0 U	14.4	1.0 U	18.5	5.0 U	1.0 U	0.7 J	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0	1.0 U	38.8	1.0 U	32.2	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	30.0	1.0 U	18.0	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	9.9	1.0 U	8.4	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	4.1	1.0 U	4.1	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/18/2020	1.0 U	1.0 U	1.0 U	13.6	1.0 U	7.6	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	1.0 U	1.0 U	7.8	1.0 U	5.1	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	4.1	1.0 U	2.8	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 5

**Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - May 2021) (a)**

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-22D	12/7/2016	1.0 U	2.5	1.0 U	31.5	1.0 U	24.5	2.0 U	1.0 U	4.1	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	2.5	1.0 U	36.9	1.0 U	24.6	2.0 U	1.0 U	3.7	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	1.72	1.0 U	24.4	1.0 U	19.6	5.0 U	1.0 U	2.8	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	13.1	1.0 U	7.9	2.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	9.7	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	6.3	1.0 U	5.1	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	5.6	1.0 U	4.9	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/18/2020	1.0 U	1.0 U	1.0 U	6.2	1.0 U	4.6	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	1.0 U	1.0 U	7.1	1.0 U	4.9	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	5.9	1.0 U	4.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-23D	1/2/2017	2.0 U	26.4	2.0 U	140	2.0 U	151	8.3	1.0 U	17.0	2.0 U	2.0 U	2.0 U
	5/1/2017	2.0 U	39.1	2.4	208	2.0 U	177	4.0 U	2.0 U	19.9	2.0 U	2.0 U	2.0 U
	11/15/2017	5.0 U	31.1	1.9	179	0.3 J	158	5.0 U	0.417 J	19.3	0.4 J	0.9 J	1.0 U
	5/30/2018	1.0 U	30.5	1.6	172	1.0 U	148	2.0 U	1.0 U	14.8	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	36.2	1.9	185	1.0 U	146	2.0 U	1.0 U	17.0	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	18.5	1.2	96.4	1.0 U	70.7	5.0 U	1.0 U	8.6	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	22.7	1.4	107	1.0 U	109	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/13/2020	1.0 U	35.2	1.8	142	1.0 U	112	5.0 U	1.0 U	13.6	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	26.3	1.2	106	1.0 U	96.7	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	31.8	1.5	126	1.0 U	99.0	5.0 U	1.0 U	11.7	1.0 U	1.0 U	1.0 U
MW-27D	12/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.6	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/13/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-40D	12/9/2016	1.0 U	2.9	1.0 U	18.1	1.0 U	9.4	2.0 U		1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	3.1	1.0 U	17.4	1.0 U	8.5	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	0.9 J	1.0 U	5.2	1.0 U	5.2	9.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	2.9	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	4.4	1.0 U	2.7	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 5

**Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - May 2021) (a)**

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-40D	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/18/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-41D	12/16/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.8	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/17/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.4	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.1	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/18/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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/ All cleanup standards, except for 1,4-dioxane, are equal to the Maryland Generic Numeric Cleanup Standards for Groundwater, Type I and II Aquifers, from the State of Maryland Interim Final Guidance (October 2018). Accessed May 27, 2020:

<https://mde.maryland.gov/programs/LAND/MarylandBrownfieldVCP/Documents/www.mde.state.md.us/assets/document/MDE>

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

ENCLOSURE A – ION EXCHANGE TEST COLUMN SETUP AND LABORATORY
ANALYTICAL REPORTS FOR TEST INFLUENT AND EFFLUENT SAMPLES



Column

Rotameter

Digital flow meter/totalizer

Pressure indicator PI-3

Pressure indicator PI-4

Column effluent sample port

Column influent sample port

Pressure indicator PI-2

In-line filter

Drain into sump

Pressure indicator/
regulator
PI-1

Peristaltic
pump



Test set-up tied in at the pressure gauge just downstream of the System bag filters



ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-36330-1

Client Project/Site: Former Kop-Flex Facility Site

For:

WSP USA Corp.
Attn: Environmental Accounts Payable
13530 Dulles Technology Drive
Suite 300
Herndon, Virginia 20171

Attn: Eric Johnson



Authorized for release by:
5/24/2021 2:48:12 PM

Hannah Cottman, Operations Support Specialist
(717)556-7383

Hannah.Cottman@eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Hannah Cottman
Operations Support Specialist
5/24/2021 2:48:12 PM



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Definitions/Glossary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Job ID: 410-36330-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-36330-1

Receipt

The samples were received on 4/16/2021 5:22 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

SUBCONTRACTING

The following analyses were subcontracted to ALS Environmental:

Low Level TOC
Tannins and Lignins

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 410-118257 recovered outside acceptance criteria, low biased, for Vinyl chloride, Dichlorodifluoromethane and Cyclohexane.. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 410-118257 is compliant under 8260C method criteria for Carbon tetrachloride. The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift.

Method 8260C: The following analyte(s) recovered outside control limits for the LCS/LCSD associated with 410-118257: 1,1,1-Trichloroethane and 1,2-Dichloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Subcontract Lab non-Sister Lab

See attached subcontract report.

Detection Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Client Sample ID: Column Effluent

Lab Sample ID: 410-36330-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	75		4.0	1.7	ug/L	10		8260C SIM 14D	Total/NA
1,1,1-Trichloroethane	21	*+	1.0	0.30	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	38		1.0	0.20	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	210		1.0	0.20	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	1.6	*+	1.0	0.30	ug/L	1		8260C	Total/NA
2-Butanone	17		10	0.30	ug/L	1		8260C	Total/NA
Acetone	11	J	20	0.70	ug/L	1		8260C	Total/NA
Chloroethane	3.9		1.0	0.20	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.20	ug/L	1		8260C	Total/NA
Methyl tertiary butyl ether	0.40	J	1.0	0.20	ug/L	1		8260C	Total/NA
Trichloroethene	0.56	J	1.0	0.20	ug/L	1		8260C	Total/NA
Vinyl chloride	0.52	J	1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: Column Influent

Lab Sample ID: 410-36330-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	79		4.0	1.7	ug/L	10		8260C SIM 14D	Total/NA
1,1,1-Trichloroethane	20	*+	1.0	0.30	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	36		1.0	0.20	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	210		1.0	0.20	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	1.6	*+	1.0	0.30	ug/L	1		8260C	Total/NA
2-Butanone	3.2	J	10	0.30	ug/L	1		8260C	Total/NA
Chloroethane	3.4		1.0	0.20	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.92	J	1.0	0.20	ug/L	1		8260C	Total/NA
Methyl tertiary butyl ether	0.38	J	1.0	0.20	ug/L	1		8260C	Total/NA
Trichloroethene	0.69	J	1.0	0.20	ug/L	1		8260C	Total/NA
Vinyl chloride	0.21	J	1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: Column Effluent-041421

Lab Sample ID: 410-36330-3

No Detections.

Client Sample ID: Column Influent-041421

Lab Sample ID: 410-36330-4

No Detections.

Client Sample ID: Column Effluent-041621

Lab Sample ID: 410-36330-5

No Detections.

Client Sample ID: Column Influent-041621

Lab Sample ID: 410-36330-6

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 410-36330-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Client Sample ID: Column Effluent

Lab Sample ID: 410-36330-1

Date Collected: 04/12/21 09:50

Matrix: Water

Date Received: 04/16/21 17:22

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	75		4.0	1.7	ug/L			04/26/21 13:24	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120					04/26/21 13:24	10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	21	*+	1.0	0.30	ug/L			04/23/21 17:44	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			04/23/21 17:44	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
1,1-Dichloroethane	38		1.0	0.20	ug/L			04/23/21 17:44	1
1,1-Dichloroethene	210		1.0	0.20	ug/L			04/23/21 17:44	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			04/23/21 17:44	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			04/23/21 17:44	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			04/23/21 17:44	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/23/21 17:44	1
1,2-Dichloroethane	1.6	*+	1.0	0.30	ug/L			04/23/21 17:44	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/23/21 17:44	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/23/21 17:44	1
2-Butanone	17		10	0.30	ug/L			04/23/21 17:44	1
2-Hexanone	<0.30		10	0.30	ug/L			04/23/21 17:44	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			04/23/21 17:44	1
Acetone	11	J	20	0.70	ug/L			04/23/21 17:44	1
Benzene	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			04/23/21 17:44	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
Bromoform	<1.0		4.0	1.0	ug/L			04/23/21 17:44	1
Bromomethane	<0.30		1.0	0.30	ug/L			04/23/21 17:44	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			04/23/21 17:44	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
Chloroethane	3.9		1.0	0.20	ug/L			04/23/21 17:44	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
Chloromethane	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
cis-1,2-Dichloroethene	1.1		1.0	0.20	ug/L			04/23/21 17:44	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
Cyclohexane	<1.0		5.0	1.0	ug/L			04/23/21 17:44	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			04/23/21 17:44	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			04/23/21 17:44	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			04/23/21 17:44	1
Methyl acetate	<0.30		5.0	0.30	ug/L			04/23/21 17:44	1
Methyl tertiary butyl ether	0.40	J	1.0	0.20	ug/L			04/23/21 17:44	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			04/23/21 17:44	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			04/23/21 17:44	1
Naphthalene	<1.0		5.0	1.0	ug/L			04/23/21 17:44	1

Client Sample Results

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Client Sample ID: Column Effluent

Lab Sample ID: 410-36330-1

Date Collected: 04/12/21 09:50

Matrix: Water

Date Received: 04/16/21 17:22

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.40		1.0	0.40	ug/L			04/23/21 17:44	1
Styrene	<0.20		5.0	0.20	ug/L			04/23/21 17:44	1
Tetrachloroethene	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
Toluene	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
Trichloroethene	0.56	J	1.0	0.20	ug/L			04/23/21 17:44	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			04/23/21 17:44	1
Vinyl chloride	0.52	J	1.0	0.20	ug/L			04/23/21 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		04/23/21 17:44	1
Dibromofluoromethane (Surr)	119		80 - 120		04/23/21 17:44	1
4-Bromofluorobenzene (Surr)	97		80 - 120		04/23/21 17:44	1
Toluene-d8 (Surr)	96		80 - 120		04/23/21 17:44	1

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Client Sample ID: Column Influent

Lab Sample ID: 410-36330-2

Date Collected: 04/12/21 09:55

Matrix: Water

Date Received: 04/16/21 17:22

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	79		4.0	1.7	ug/L			04/26/21 13:44	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120					04/26/21 13:44	10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	20	*+	1.0	0.30	ug/L			04/23/21 18:10	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			04/23/21 18:10	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
1,1-Dichloroethane	36		1.0	0.20	ug/L			04/23/21 18:10	1
1,1-Dichloroethene	210		1.0	0.20	ug/L			04/23/21 18:10	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			04/23/21 18:10	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			04/23/21 18:10	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			04/23/21 18:10	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/23/21 18:10	1
1,2-Dichloroethane	1.6	*+	1.0	0.30	ug/L			04/23/21 18:10	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/23/21 18:10	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/23/21 18:10	1
2-Butanone	3.2	J	10	0.30	ug/L			04/23/21 18:10	1
2-Hexanone	<0.30		10	0.30	ug/L			04/23/21 18:10	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			04/23/21 18:10	1
Acetone	<0.70		20	0.70	ug/L			04/23/21 18:10	1
Benzene	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			04/23/21 18:10	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
Bromoform	<1.0		4.0	1.0	ug/L			04/23/21 18:10	1
Bromomethane	<0.30		1.0	0.30	ug/L			04/23/21 18:10	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			04/23/21 18:10	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
Chloroethane	3.4		1.0	0.20	ug/L			04/23/21 18:10	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
Chloromethane	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
cis-1,2-Dichloroethene	0.92	J	1.0	0.20	ug/L			04/23/21 18:10	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
Cyclohexane	<1.0		5.0	1.0	ug/L			04/23/21 18:10	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			04/23/21 18:10	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			04/23/21 18:10	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			04/23/21 18:10	1
Methyl acetate	<0.30		5.0	0.30	ug/L			04/23/21 18:10	1
Methyl tertiary butyl ether	0.38	J	1.0	0.20	ug/L			04/23/21 18:10	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			04/23/21 18:10	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			04/23/21 18:10	1
Naphthalene	<1.0		5.0	1.0	ug/L			04/23/21 18:10	1

Client Sample Results

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Client Sample ID: Column Influent

Lab Sample ID: 410-36330-2

Date Collected: 04/12/21 09:55

Matrix: Water

Date Received: 04/16/21 17:22

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.40		1.0	0.40	ug/L			04/23/21 18:10	1
Styrene	<0.20		5.0	0.20	ug/L			04/23/21 18:10	1
Tetrachloroethene	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
Toluene	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
Trichloroethene	0.69	J	1.0	0.20	ug/L			04/23/21 18:10	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			04/23/21 18:10	1
Vinyl chloride	0.21	J	1.0	0.20	ug/L			04/23/21 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		04/23/21 18:10	1
Dibromofluoromethane (Surr)	119		80 - 120		04/23/21 18:10	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/23/21 18:10	1
Toluene-d8 (Surr)	96		80 - 120		04/23/21 18:10	1

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-36330-7

Date Collected: 04/12/21 00:00

Matrix: Water

Date Received: 04/16/21 17:22

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.17		0.40	0.17	ug/L			04/26/21 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120					04/26/21 13:04	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.30	*+	1.0	0.30	ug/L			04/23/21 12:35	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			04/23/21 12:35	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
1,1-Dichloroethane	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
1,1-Dichloroethene	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			04/23/21 12:35	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			04/23/21 12:35	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			04/23/21 12:35	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/23/21 12:35	1
1,2-Dichloroethane	<0.30	*+	1.0	0.30	ug/L			04/23/21 12:35	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/23/21 12:35	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/23/21 12:35	1
2-Butanone	<0.30		10	0.30	ug/L			04/23/21 12:35	1
2-Hexanone	<0.30		10	0.30	ug/L			04/23/21 12:35	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			04/23/21 12:35	1
Acetone	<0.70		20	0.70	ug/L			04/23/21 12:35	1
Benzene	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			04/23/21 12:35	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Bromoform	<1.0		4.0	1.0	ug/L			04/23/21 12:35	1
Bromomethane	<0.30		1.0	0.30	ug/L			04/23/21 12:35	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			04/23/21 12:35	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Chloroethane	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Chloromethane	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
cis-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Cyclohexane	<1.0		5.0	1.0	ug/L			04/23/21 12:35	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			04/23/21 12:35	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			04/23/21 12:35	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			04/23/21 12:35	1
Methyl acetate	<0.30		5.0	0.30	ug/L			04/23/21 12:35	1
Methyl tertiary butyl ether	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			04/23/21 12:35	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			04/23/21 12:35	1
Naphthalene	<1.0		5.0	1.0	ug/L			04/23/21 12:35	1

Client Sample Results

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-36330-7

Date Collected: 04/12/21 00:00

Matrix: Water

Date Received: 04/16/21 17:22

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.40		1.0	0.40	ug/L			04/23/21 12:35	1
Styrene	<0.20		5.0	0.20	ug/L			04/23/21 12:35	1
Tetrachloroethene	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Toluene	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Trichloroethene	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/23/21 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		04/23/21 12:35	1
Dibromofluoromethane (Surr)	114		80 - 120		04/23/21 12:35	1
4-Bromofluorobenzene (Surr)	97		80 - 120		04/23/21 12:35	1
Toluene-d8 (Surr)	96		80 - 120		04/23/21 12:35	1

Action Limit Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Client Sample ID: Column Effluent

Lab Sample ID: 410-36330-1

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	21	*+	ug/L	200	1.0	8260C	Total/NA
1,1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,1,1,2-Trichloroethane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,1-Dichloroethane	38		ug/L	90	1.0	8260C	Total/NA
1,1-Dichloroethene	210		ug/L	7	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	<0.30		ug/L	0.2	5.0	8260C	Total/NA
1,2-Dibromoethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,2-Dichlorobenzene	<0.20		ug/L	600	5.0	8260C	Total/NA
1,2-Dichloroethane	1.6	*+	ug/L	5	1.0	8260C	Total/NA
1,2-Dichloropropane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,3-Dichlorobenzene	<0.20		ug/L	2	5.0	8260C	Total/NA
1,4-Dichlorobenzene	<0.20		ug/L	75	5.0	8260C	Total/NA
2-Butanone	17		ug/L	700	10	8260C	Total/NA
4-Methyl-2-pentanone	<0.50		ug/L	630	10	8260C	Total/NA
Acetone	11	J	ug/L	550	20	8260C	Total/NA
Benzene	<0.20		ug/L	5	1.0	8260C	Total/NA
Bromodichloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Bromoform	<1.0		ug/L	80	4.0	8260C	Total/NA
Bromomethane	<0.30		ug/L	0.85	1.0	8260C	Total/NA
Carbon disulfide	<0.20		ug/L	100	5.0	8260C	Total/NA
Carbon tetrachloride	<0.20		ug/L	5	1.0	8260C	Total/NA
Chlorobenzene	<0.20		ug/L	100	1.0	8260C	Total/NA
Chloroethane	3.9		ug/L	3.6	1.0	8260C	Total/NA
Chloroform	<0.20		ug/L	80	1.0	8260C	Total/NA
Chloromethane	<0.20		ug/L	190	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	1.1		ug/L	70	1.0	8260C	Total/NA
cis-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Dibromochloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Ethylbenzene	<0.40		ug/L	700	1.0	8260C	Total/NA
Isopropylbenzene	<0.20		ug/L	66	5.0	8260C	Total/NA
Methyl tertiary butyl ether	0.40	J	ug/L	20	1.0	8260C	Total/NA
Naphthalene	<1.0		ug/L	0.65	5.0	8260C	Total/NA
o-Xylene	<0.40		ug/L	10000	1.0	8260C	Total/NA
Styrene	<0.20		ug/L	100	5.0	8260C	Total/NA
Tetrachloroethene	<0.20		ug/L	5	1.0	8260C	Total/NA
Toluene	<0.20		ug/L	1000	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	<0.20		ug/L	100	1.0	8260C	Total/NA
trans-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Trichloroethene	0.56	J	ug/L	5	1.0	8260C	Total/NA
Vinyl chloride	0.52	J	ug/L	2	1.0	8260C	Total/NA

Client Sample ID: Column Influent

Lab Sample ID: 410-36330-2

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	20	*+	ug/L	200	1.0	8260C	Total/NA
1,1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,1,1,2-Trichloroethane	<0.20		ug/L	5	1.0	8260C	Total/NA

Eurofins Lancaster Laboratories Env, LLC

Action Limit Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Client Sample ID: Column Influent (Continued)

Lab Sample ID: 410-36330-2

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1-Dichloroethane	36		ug/L	90	1.0	8260C	Total/NA
1,1-Dichloroethene	210		ug/L	7	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	<0.30		ug/L	0.2	5.0	8260C	Total/NA
1,2-Dibromoethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,2-Dichlorobenzene	<0.20		ug/L	600	5.0	8260C	Total/NA
1,2-Dichloroethane	1.6	*+	ug/L	5	1.0	8260C	Total/NA
1,2-Dichloropropane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,3-Dichlorobenzene	<0.20		ug/L	2	5.0	8260C	Total/NA
1,4-Dichlorobenzene	<0.20		ug/L	75	5.0	8260C	Total/NA
2-Butanone	3.2	J	ug/L	700	10	8260C	Total/NA
4-Methyl-2-pentanone	<0.50		ug/L	630	10	8260C	Total/NA
Acetone	<0.70		ug/L	550	20	8260C	Total/NA
Benzene	<0.20		ug/L	5	1.0	8260C	Total/NA
Bromodichloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Bromoform	<1.0		ug/L	80	4.0	8260C	Total/NA
Bromomethane	<0.30		ug/L	0.85	1.0	8260C	Total/NA
Carbon disulfide	<0.20		ug/L	100	5.0	8260C	Total/NA
Carbon tetrachloride	<0.20		ug/L	5	1.0	8260C	Total/NA
Chlorobenzene	<0.20		ug/L	100	1.0	8260C	Total/NA
Chloroethane	3.4		ug/L	3.6	1.0	8260C	Total/NA
Chloroform	<0.20		ug/L	80	1.0	8260C	Total/NA
Chloromethane	<0.20		ug/L	190	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	0.92	J	ug/L	70	1.0	8260C	Total/NA
cis-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Dibromochloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Ethylbenzene	<0.40		ug/L	700	1.0	8260C	Total/NA
Isopropylbenzene	<0.20		ug/L	66	5.0	8260C	Total/NA
Methyl tertiary butyl ether	0.38	J	ug/L	20	1.0	8260C	Total/NA
Naphthalene	<1.0		ug/L	0.65	5.0	8260C	Total/NA
o-Xylene	<0.40		ug/L	10000	1.0	8260C	Total/NA
Styrene	<0.20		ug/L	100	5.0	8260C	Total/NA
Tetrachloroethene	<0.20		ug/L	5	1.0	8260C	Total/NA
Toluene	<0.20		ug/L	1000	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	<0.20		ug/L	100	1.0	8260C	Total/NA
trans-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Trichloroethene	0.69	J	ug/L	5	1.0	8260C	Total/NA
Vinyl chloride	0.21	J	ug/L	2	1.0	8260C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-36330-7

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	<0.30	*+	ug/L	200	1.0	8260C	Total/NA
1,1,1,2-Tetrachloroethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,1,2-Trichloroethane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,1-Dichloroethane	<0.20		ug/L	90	1.0	8260C	Total/NA
1,1-Dichloroethene	<0.20		ug/L	7	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	<0.30		ug/L	0.2	5.0	8260C	Total/NA

Eurofins Lancaster Laboratories Env, LLC

Action Limit Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Client Sample ID: Trip Blank (Continued)

Lab Sample ID: 410-36330-7

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,2-Dibromoethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,2-Dichlorobenzene	<0.20		ug/L	600	5.0	8260C	Total/NA
1,2-Dichloroethane	<0.30	*+	ug/L	5	1.0	8260C	Total/NA
1,2-Dichloropropane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,3-Dichlorobenzene	<0.20		ug/L	2	5.0	8260C	Total/NA
1,4-Dichlorobenzene	<0.20		ug/L	75	5.0	8260C	Total/NA
2-Butanone	<0.30		ug/L	700	10	8260C	Total/NA
4-Methyl-2-pentanone	<0.50		ug/L	630	10	8260C	Total/NA
Acetone	<0.70		ug/L	550	20	8260C	Total/NA
Benzene	<0.20		ug/L	5	1.0	8260C	Total/NA
Bromodichloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Bromoform	<1.0		ug/L	80	4.0	8260C	Total/NA
Bromomethane	<0.30		ug/L	0.85	1.0	8260C	Total/NA
Carbon disulfide	<0.20		ug/L	100	5.0	8260C	Total/NA
Carbon tetrachloride	<0.20		ug/L	5	1.0	8260C	Total/NA
Chlorobenzene	<0.20		ug/L	100	1.0	8260C	Total/NA
Chloroethane	<0.20		ug/L	3.6	1.0	8260C	Total/NA
Chloroform	<0.20		ug/L	80	1.0	8260C	Total/NA
Chloromethane	<0.20		ug/L	190	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	<0.20		ug/L	70	1.0	8260C	Total/NA
cis-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Dibromochloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Ethylbenzene	<0.40		ug/L	700	1.0	8260C	Total/NA
Isopropylbenzene	<0.20		ug/L	66	5.0	8260C	Total/NA
Methyl tertiary butyl ether	<0.20		ug/L	20	1.0	8260C	Total/NA
Naphthalene	<1.0		ug/L	0.65	5.0	8260C	Total/NA
o-Xylene	<0.40		ug/L	10000	1.0	8260C	Total/NA
Styrene	<0.20		ug/L	100	5.0	8260C	Total/NA
Tetrachloroethene	<0.20		ug/L	5	1.0	8260C	Total/NA
Toluene	<0.20		ug/L	1000	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	<0.20		ug/L	100	1.0	8260C	Total/NA
trans-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Trichloroethene	<0.20		ug/L	5	1.0	8260C	Total/NA
Vinyl chloride	<0.20		ug/L	2	1.0	8260C	Total/NA

Surrogate Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	DBFM (80-120)	BFB (80-120)	TOL (80-120)
410-36330-1	Column Effluent	107	119	97	96
410-36330-2	Column Influent	104	119	96	96
410-36330-7	Trip Blank	105	114	97	96
LCS 410-118257/5	Lab Control Sample	105	112	102	96
LCSD 410-118257/7	Lab Control Sample Dup	102	110	103	97
MB 410-118257/9	Method Blank	105	115	96	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

DBFM = Dibromofluoromethane (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		TOL (80-120)
410-36330-1	Column Effluent	92
410-36330-2	Column Influent	92
410-36330-7	Trip Blank	92
LCS 410-118961/4	Lab Control Sample	92
LCSD 410-118961/5	Lab Control Sample Dup	92
MB 410-118961/7	Method Blank	92

Surrogate Legend

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-118257/9

Matrix: Water

Analysis Batch: 118257

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.30		1.0	0.30	ug/L			04/23/21 11:14	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			04/23/21 11:14	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
1,1-Dichloroethane	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
1,1-Dichloroethene	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			04/23/21 11:14	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			04/23/21 11:14	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			04/23/21 11:14	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/23/21 11:14	1
1,2-Dichloroethane	<0.30		1.0	0.30	ug/L			04/23/21 11:14	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/23/21 11:14	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/23/21 11:14	1
2-Butanone	<0.30		10	0.30	ug/L			04/23/21 11:14	1
2-Hexanone	<0.30		10	0.30	ug/L			04/23/21 11:14	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			04/23/21 11:14	1
Acetone	<0.70		20	0.70	ug/L			04/23/21 11:14	1
Benzene	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			04/23/21 11:14	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Bromoform	<1.0		4.0	1.0	ug/L			04/23/21 11:14	1
Bromomethane	<0.30		1.0	0.30	ug/L			04/23/21 11:14	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			04/23/21 11:14	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Chloroethane	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Chloromethane	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
cis-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Cyclohexane	<1.0		5.0	1.0	ug/L			04/23/21 11:14	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			04/23/21 11:14	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			04/23/21 11:14	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			04/23/21 11:14	1
Methyl acetate	<0.30		5.0	0.30	ug/L			04/23/21 11:14	1
Methyl tertiary butyl ether	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			04/23/21 11:14	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			04/23/21 11:14	1
Naphthalene	<1.0		5.0	1.0	ug/L			04/23/21 11:14	1
o-Xylene	<0.40		1.0	0.40	ug/L			04/23/21 11:14	1
Styrene	<0.20		5.0	0.20	ug/L			04/23/21 11:14	1
Tetrachloroethene	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Toluene	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-118257/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 118257

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Trichloroethene	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/23/21 11:14	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		04/23/21 11:14	1
Dibromofluoromethane (Surr)	115		80 - 120		04/23/21 11:14	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/23/21 11:14	1
Toluene-d8 (Surr)	96		80 - 120		04/23/21 11:14	1

Lab Sample ID: LCS 410-118257/5

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 118257

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	20.0	24.5		ug/L		123	67 - 126
1,1,2,2-Tetrachloroethane	20.0	17.5		ug/L		87	72 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.2		ug/L		101	73 - 139
1,1,2-Trichloroethane	20.0	19.7		ug/L		98	80 - 120
1,1-Dichloroethane	20.0	19.3		ug/L		97	80 - 120
1,1-Dichloroethane	20.0	21.2		ug/L		106	80 - 131
1,2,3-Trichlorobenzene	20.0	19.6		ug/L		98	66 - 120
1,2,4-Trichlorobenzene	20.0	19.0		ug/L		95	63 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.9		ug/L		99	47 - 131
1,2-Dibromoethane	20.0	19.8		ug/L		99	77 - 120
1,2-Dichlorobenzene	20.0	20.3		ug/L		101	80 - 120
1,2-Dichloroethane	20.0	23.8		ug/L		119	73 - 124
1,2-Dichloropropane	20.0	18.2		ug/L		91	80 - 120
1,3-Dichlorobenzene	20.0	20.2		ug/L		101	80 - 120
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	80 - 120
2-Butanone	150	133		ug/L		89	59 - 135
2-Hexanone	100	89.3		ug/L		89	56 - 135
4-Methyl-2-pentanone	100	92.3		ug/L		92	62 - 133
Acetone	150	125		ug/L		84	54 - 157
Benzene	20.0	19.2		ug/L		96	80 - 120
Bromochloromethane	20.0	20.4		ug/L		102	80 - 120
Bromodichloromethane	20.0	22.5		ug/L		113	71 - 120
Bromoform	20.0	20.7		ug/L		104	51 - 120
Bromomethane	20.0	20.9		ug/L		104	53 - 128
Carbon disulfide	20.0	17.6		ug/L		88	65 - 128
Carbon tetrachloride	20.0	25.1		ug/L		126	64 - 134
Chlorobenzene	20.0	20.2		ug/L		101	80 - 120
Chloroethane	20.0	17.4		ug/L		87	55 - 123
Chloroform	20.0	22.1		ug/L		111	80 - 120
Chloromethane	20.0	16.6		ug/L		83	56 - 121
cis-1,2-Dichloroethane	20.0	20.1		ug/L		101	80 - 125
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	75 - 120

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-118257/5

Matrix: Water

Analysis Batch: 118257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Cyclohexane	20.0	17.1		ug/L		86	68 - 126
Dibromochloromethane	20.0	21.3		ug/L		106	71 - 120
Dichlorodifluoromethane	20.0	20.4		ug/L		102	41 - 127
Ethylbenzene	20.0	20.0		ug/L		100	80 - 120
Isopropylbenzene	20.0	20.3		ug/L		102	80 - 120
m&p-Xylene	40.0	40.6		ug/L		102	80 - 120
Methyl acetate	20.0	16.9		ug/L		85	54 - 136
Methyl tertiary butyl ether	20.0	19.1		ug/L		95	69 - 122
Methylcyclohexane	20.0	19.4		ug/L		97	67 - 121
Methylene Chloride	20.0	19.6		ug/L		98	80 - 120
Naphthalene	20.0	19.2		ug/L		96	53 - 124
o-Xylene	20.0	19.8		ug/L		99	80 - 120
Styrene	20.0	20.5		ug/L		103	80 - 120
Tetrachloroethene	20.0	20.7		ug/L		103	80 - 120
Toluene	20.0	18.6		ug/L		93	80 - 120
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	80 - 126
trans-1,3-Dichloropropene	20.0	20.4		ug/L		102	67 - 120
Trichloroethene	20.0	21.2		ug/L		106	80 - 120
Trichlorofluoromethane	20.0	24.1		ug/L		121	55 - 135
Vinyl chloride	20.0	18.2		ug/L		91	56 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	112		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LCSD 410-118257/7

Matrix: Water

Analysis Batch: 118257

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
1,1,1-Trichloroethane	20.0	25.6	*+	ug/L		128	67 - 126	4	30
1,1,2,2-Tetrachloroethane	20.0	18.2		ug/L		91	72 - 120	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.6		ug/L		103	73 - 139	2	30
1,1,2-Trichloroethane	20.0	20.7		ug/L		103	80 - 120	5	30
1,1-Dichloroethane	20.0	20.1		ug/L		100	80 - 120	4	30
1,1-Dichloroethene	20.0	22.2		ug/L		111	80 - 131	5	30
1,2,3-Trichlorobenzene	20.0	20.6		ug/L		103	66 - 120	5	30
1,2,4-Trichlorobenzene	20.0	20.2		ug/L		101	63 - 120	6	30
1,2-Dibromo-3-Chloropropane	20.0	20.3		ug/L		102	47 - 131	2	30
1,2-Dibromoethane	20.0	20.6		ug/L		103	77 - 120	4	30
1,2-Dichlorobenzene	20.0	21.1		ug/L		106	80 - 120	4	30
1,2-Dichloroethane	20.0	25.1	*+	ug/L		125	73 - 124	5	30
1,2-Dichloropropane	20.0	19.0		ug/L		95	80 - 120	4	30
1,3-Dichlorobenzene	20.0	21.0		ug/L		105	80 - 120	4	30
1,4-Dichlorobenzene	20.0	20.9		ug/L		105	80 - 120	5	30
2-Butanone	150	139		ug/L		93	59 - 135	4	30

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-118257/7

Matrix: Water

Analysis Batch: 118257

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
		Result	Qualifier				Limits		
2-Hexanone	100	93.8		ug/L		94	56 - 135	5	30
4-Methyl-2-pentanone	100	96.3		ug/L		96	62 - 133	4	30
Acetone	150	132		ug/L		88	54 - 157	5	30
Benzene	20.0	20.1		ug/L		101	80 - 120	5	30
Bromochloromethane	20.0	21.2		ug/L		106	80 - 120	4	30
Bromodichloromethane	20.0	23.2		ug/L		116	71 - 120	3	30
Bromoform	20.0	21.9		ug/L		109	51 - 120	5	30
Bromomethane	20.0	21.8		ug/L		109	53 - 128	5	30
Carbon disulfide	20.0	18.4		ug/L		92	65 - 128	4	30
Carbon tetrachloride	20.0	26.1		ug/L		130	64 - 134	4	30
Chlorobenzene	20.0	21.3		ug/L		107	80 - 120	5	30
Chloroethane	20.0	18.7		ug/L		94	55 - 123	7	30
Chloroform	20.0	23.5		ug/L		117	80 - 120	6	30
Chloromethane	20.0	17.8		ug/L		89	56 - 121	7	30
cis-1,2-Dichloroethene	20.0	21.0		ug/L		105	80 - 125	4	30
cis-1,3-Dichloropropene	20.0	20.9		ug/L		105	75 - 120	5	30
Cyclohexane	20.0	17.5		ug/L		88	68 - 126	2	30
Dibromochloromethane	20.0	22.1		ug/L		111	71 - 120	4	30
Dichlorodifluoromethane	20.0	20.8		ug/L		104	41 - 127	2	30
Ethylbenzene	20.0	21.2		ug/L		106	80 - 120	6	30
Isopropylbenzene	20.0	21.6		ug/L		108	80 - 120	6	30
m&p-Xylene	40.0	43.0		ug/L		107	80 - 120	6	30
Methyl acetate	20.0	18.3		ug/L		92	54 - 136	8	30
Methyl tertiary butyl ether	20.0	19.7		ug/L		98	69 - 122	3	30
Methylcyclohexane	20.0	19.9		ug/L		99	67 - 121	2	30
Methylene Chloride	20.0	20.1		ug/L		100	80 - 120	2	30
Naphthalene	20.0	20.1		ug/L		100	53 - 124	5	30
o-Xylene	20.0	20.9		ug/L		104	80 - 120	5	30
Styrene	20.0	21.9		ug/L		110	80 - 120	6	30
Tetrachloroethene	20.0	23.1		ug/L		115	80 - 120	11	30
Toluene	20.0	19.7		ug/L		98	80 - 120	5	30
trans-1,2-Dichloroethene	20.0	21.3		ug/L		106	80 - 126	4	30
trans-1,3-Dichloropropene	20.0	21.4		ug/L		107	67 - 120	5	30
Trichloroethene	20.0	22.0		ug/L		110	80 - 120	4	30
Trichlorofluoromethane	20.0	24.7		ug/L		123	55 - 135	2	30
Vinyl chloride	20.0	19.2		ug/L		96	56 - 120	5	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	110		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120
Toluene-d8 (Surr)	97		80 - 120

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-118961/7

Matrix: Water

Analysis Batch: 118961

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.17		0.40	0.17	ug/L			04/26/21 12:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120					04/26/21 12:43	1

Lab Sample ID: LCS 410-118961/4

Matrix: Water

Analysis Batch: 118961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	4.81	4.72		ug/L		98	74 - 133
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	92		80 - 120				

Lab Sample ID: LCSD 410-118961/5

Matrix: Water

Analysis Batch: 118961

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	4.81	4.87		ug/L		101	74 - 133	3	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	92		80 - 120						

QC Association Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

GC/MS VOA

Analysis Batch: 118257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36330-1	Column Effluent	Total/NA	Water	8260C	
410-36330-2	Column Influent	Total/NA	Water	8260C	
410-36330-7	Trip Blank	Total/NA	Water	8260C	
MB 410-118257/9	Method Blank	Total/NA	Water	8260C	
LCS 410-118257/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 410-118257/7	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 118961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36330-1	Column Effluent	Total/NA	Water	8260C SIM 14D	
410-36330-2	Column Influent	Total/NA	Water	8260C SIM 14D	
410-36330-7	Trip Blank	Total/NA	Water	8260C SIM 14D	
MB 410-118961/7	Method Blank	Total/NA	Water	8260C SIM 14D	
LCS 410-118961/4	Lab Control Sample	Total/NA	Water	8260C SIM 14D	
LCSD 410-118961/5	Lab Control Sample Dup	Total/NA	Water	8260C SIM 14D	

Lab Chronicle

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Client Sample ID: Column Effluent

Lab Sample ID: 410-36330-1

Date Collected: 04/12/21 09:50

Matrix: Water

Date Received: 04/16/21 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	118257	04/23/21 17:44	LCW8	ELLE
Total/NA	Analysis	8260C SIM 14D		10	118961	04/26/21 13:24	USEJ	ELLE

Client Sample ID: Column Influent

Lab Sample ID: 410-36330-2

Date Collected: 04/12/21 09:55

Matrix: Water

Date Received: 04/16/21 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	118257	04/23/21 18:10	LCW8	ELLE
Total/NA	Analysis	8260C SIM 14D		10	118961	04/26/21 13:44	USEJ	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-36330-7

Date Collected: 04/12/21 00:00

Matrix: Water

Date Received: 04/16/21 17:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	118257	04/23/21 12:35	LCW8	ELLE
Total/NA	Analysis	8260C SIM 14D		1	118961	04/26/21 13:04	USEJ	ELLE

Laboratory References:

ALS MTown = ALS Environmental - Middletown, PA, 301 Fulling Mill Road, Middletown, PA 17057

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,4-Dichlorobenzene
8260C		Water	2-Butanone
8260C		Water	2-Hexanone
8260C		Water	4-Methyl-2-pentanone
8260C		Water	Acetone
8260C		Water	Benzene
8260C		Water	Bromochloromethane
8260C		Water	Bromodichloromethane
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Cyclohexane
8260C		Water	Dibromochloromethane
8260C		Water	Dichlorodifluoromethane
8260C		Water	Ethylbenzene
8260C		Water	Isopropylbenzene
8260C		Water	m&p-Xylene
8260C		Water	Methyl acetate
8260C		Water	Methyl tertiary butyl ether
8260C		Water	Methylcyclohexane
8260C		Water	Methylene Chloride
8260C		Water	Naphthalene
8260C		Water	o-Xylene
8260C		Water	Styrene

Accreditation/Certification Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	06-30-22
8260C	Water	Tetrachloroethene	
8260C	Water	Toluene	
8260C	Water	trans-1,2-Dichloroethene	
8260C	Water	trans-1,3-Dichloropropene	
8260C	Water	Trichloroethene	
8260C	Water	Trichlorofluoromethane	
8260C	Water	Vinyl chloride	
8260C SIM 14D	Water	1,4-Dioxane	

Method Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C SIM 14D	Volatile Organic Compounds (GC/MS)	SW846	ELLE
5310C	SM 5310C TOC	SM18	ALS MTown
5550B	SM 5550BTannins and Lignins	SM18	ALS MTown
5030C	Purge and Trap	SW846	ELLE

Protocol References:

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ALS MTown = ALS Environmental - Middletown, PA, 301 Fulling Mill Road, Middletown, PA 17057

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Sample Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-36330-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-36330-1	Column Effluent	Water	04/12/21 09:50	04/16/21 17:22	
410-36330-2	Column Influent	Water	04/12/21 09:55	04/16/21 17:22	
410-36330-3	Column Effluent-041421	Water	04/14/21 06:20	04/16/21 17:22	
410-36330-4	Column Influent-041421	Water	04/14/21 06:25	04/16/21 17:22	
410-36330-5	Column Effluent-041621	Water	04/16/21 08:25	04/16/21 17:22	
410-36330-6	Column Influent-041621	Water	04/16/21 08:30	04/16/21 17:22	
410-36330-7	Trip Blank	Water	04/12/21 00:00	04/16/21 17:22	

- 1
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- 16
- 17

May 24, 2021

ENV Subcontracting
Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Certificate of Analysis

Project Name: 2020-WET CHEM PRICING	Workorder: 3170487
Purchase Order:	Workorder ID: 410-36330-1

Dear ENV Subcontracting:

Enclosed are the analytical results for samples received by the laboratory on Monday, April 19, 2021.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903



Ms. Sarah S Leung
Project Coordinator

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

SAMPLE SUMMARY

Workorder: 3170487 410-36330-1

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3170487001	410-36330-1	Water	4/12/2021 09:50	4/19/2021 11:04	Collected by Client
3170487002	410-36330-2	Water	4/12/2021 09:55	4/19/2021 11:04	Collected by Client
3170487003	410-36330-3	Water	4/14/2021 06:20	4/19/2021 11:04	Collected by Client
3170487004	410-36330-4	Water	4/14/2021 06:25	4/19/2021 11:04	Collected by Client
3170487005	410-36330-5	Water	4/16/2021 08:25	4/19/2021 11:04	Collected by Client
3170487006	410-36330-6	Water	4/16/2021 08:30	4/19/2021 11:04	Collected by Client

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SAMPLE SUMMARY

Workorder: 3170487 410-36330-1

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 3170487 410-36330-1

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

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ANALYTICAL RESULTS

Workorder: 3170487 410-36330-1

Lab ID: **3170487001** Date Collected: 4/12/2021 09:50 Matrix: Water
 Sample ID: **410-36330-1** Date Received: 4/19/2021 11:04

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	S5550B-10			5/24/21 10:15	MBS	D
Total Organic Carbon (TOC)	ND	C	mg/L	0.50	SM5310B-2011			5/3/21 20:18	PAG	A



Ms. Sarah S Leung
 Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3170487 410-36330-1

Lab ID: **3170487002** Date Collected: 4/12/2021 09:55 Matrix: Water
 Sample ID: **410-36330-2** Date Received: 4/19/2021 11:04

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	S5550B-10			5/24/21 10:15	MBS	D
Total Organic Carbon (TOC)	0.82	C	mg/L	0.50	SM5310B-2011			5/3/21 20:18	PAG	A



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 Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3170487 410-36330-1

Lab ID: **3170487003** Date Collected: 4/14/2021 06:20 Matrix: Water
 Sample ID: **410-36330-3** Date Received: 4/19/2021 11:04

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	S5550B-10			5/24/21 10:15	MBS	D
Total Organic Carbon (TOC)	0.85	C	mg/L	0.50	SM5310B-2011			5/3/21 20:18	PAG	A



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ANALYTICAL RESULTS

Workorder: 3170487 410-36330-1

Lab ID: **3170487004** Date Collected: 4/14/2021 06:25 Matrix: Water
 Sample ID: **410-36330-4** Date Received: 4/19/2021 11:04

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	S5550B-10			5/24/21 10:15	MBS	D
Total Organic Carbon (TOC)	0.91	C	mg/L	0.50	SM5310B-2011			5/3/21 20:18	PAG	A



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ANALYTICAL RESULTS

Workorder: 3170487 410-36330-1

Lab ID: **3170487005** Date Collected: 4/16/2021 08:25 Matrix: Water
 Sample ID: **410-36330-5** Date Received: 4/19/2021 11:04

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	S5550B-10			5/24/21 10:15	MBS	D
Total Organic Carbon (TOC)	0.73	C	mg/L	0.50	SM5310B-2011			5/3/21 20:18	PAG	A



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ANALYTICAL RESULTS

Workorder: 3170487 410-36330-1

Lab ID: **3170487006** Date Collected: 4/16/2021 08:30 Matrix: Water
 Sample ID: **410-36330-6** Date Received: 4/19/2021 11:04

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	S5550B-10			5/24/21 10:15	MBS	D
Total Organic Carbon (TOC)	0.83	C	mg/L	0.50	SM5310B-2011			5/3/21 20:18	PAG	A



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ANALYTICAL RESULTS

Workorder: 3170487 410-36330-1

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3170487001	1	410-36330-1	S5550B-10	Tannin and Lignin
The Tannin and Lignin analysis was analyzed outside of the 28 day holding time.				
3170487002	1	410-36330-2	S5550B-10	Tannin and Lignin
The Tannin and Lignin analysis was analyzed outside of the 28 day holding time.				
3170487003	1	410-36330-3	S5550B-10	Tannin and Lignin
The Tannin and Lignin analysis was analyzed outside of the 28 day holding time.				
3170487004	1	410-36330-4	S5550B-10	Tannin and Lignin
The Tannin and Lignin analysis was analyzed outside of the 28 day holding time.				
3170487005	1	410-36330-5	S5550B-10	Tannin and Lignin
The Tannin and Lignin analysis was analyzed outside of the 28 day holding time.				
3170487006	1	410-36330-6	S5550B-10	Tannin and Lignin
The Tannin and Lignin analysis was analyzed outside of the 28 day holding time.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3170487 410-36330-1

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3170487001	410-36330-1	S5550B-10		
3170487001	410-36330-1	SM5310B-2011		
3170487002	410-36330-2	S5550B-10		
3170487002	410-36330-2	SM5310B-2011		
3170487003	410-36330-3	S5550B-10		
3170487003	410-36330-3	SM5310B-2011		
3170487004	410-36330-4	S5550B-10		
3170487004	410-36330-4	SM5310B-2011		
3170487005	410-36330-5	S5550B-10		
3170487005	410-36330-5	SM5310B-2011		
3170487006	410-36330-6	S5550B-10		
3170487006	410-36330-6	SM5310B-2011		

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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Cottman, Hannah L	State or Origin: Maryland
Client Contact: Shipping/Receiving		E-Mail: Hannah.Cottman@eurofins.com	Page: Page 1 of 1
Company: ALS Environmental		Accreditations Required (See note): State - Maryland	Job #: 410-36330-1
Address: 301 Fuling Mill Road, Middletown, PA 17057		Due Date Requested: 5/7/2021	Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Ascorbic Acid, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDTA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4.5, X - EDTA, Z - other (specify)
City: Middletown		Analysis Requested	
State, Zip: PA, 17057		Total Number of Containers: 4	
PO #: SSOWE		Special Instructions/Note:	
WO #: SSOWE		Standard Report Format: EDD Required - .xls format	
Project #: 41001602		Standard Report Format: EDD Required - .xls format	
Site: Former Kop-Flex Facility Site		Standard Report Format: EDD Required - .xls format	
Sample Identification - Client ID (Lab ID)		Standard Report Format: EDD Required - .xls format	
Column Effluent (410-36330-1)	Sample Date: 4/12/21	Sample Time: 09:50 Eastern	Matrix: Water
Column Influent (410-36330-2)	Sample Date: 4/12/21	Sample Time: 09:55 Eastern	Matrix: Water
Column Effluent-041421 (410-36330-3)	Sample Date: 4/14/21	Sample Time: 06:20 Eastern	Matrix: Water
Column Influent-041421 (410-36330-4)	Sample Date: 4/14/21	Sample Time: 06:25 Eastern	Matrix: Water
Column Effluent-041621 (410-36330-5)	Sample Date: 4/16/21	Sample Time: 08:25 Eastern	Matrix: Water
Column Influent-041621 (410-36330-6)	Sample Date: 4/16/21	Sample Time: 08:30 Eastern	Matrix: Water
<p><i>each sample has 3 vials and 1 x 250ml aliquot</i></p> <p><i>WATER</i></p>			
<p>Special Instructions/Note:</p> <p>Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Field Filled Sample (Yes or No) <input checked="" type="checkbox"/></p> <p>Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> SUB (Low Level TOC/ EPA 5310) <input checked="" type="checkbox"/> SUB (Tannins and Lignin)/ 5550B <input checked="" type="checkbox"/></p>			
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p>			
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p>			
Empty Kit Relinquished by:		Date:	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact: Yes		Custody Seal No.:	
<p><i>received by customer 4/16/21 10:11</i></p> <p><i>renewed by customer 4/16/21 10:4</i></p>			



301 Fulling Mill Road
 Middletown, PA 17057
 P: (717) 944-5541
 F: (717) 944-1430

3170487

Eurofins Lancaster Laboratories
 Environmental, LLC

of Sample Receipt Form

Client: _____ Work Order: _____ Initials: ALB Date: 4/19/2021

- | | | | |
|--------------------------------------------------------------------------------------------------------------------------|------------------|------------|-----------|
| 1. Were airbills / tracking numbers present and recorded?..... | <u>NONE</u> | YES | NO |
| Tracking number: _____ | | | |
| 2. Are Custody Seals on shipping containers intact?..... | <u>NONE</u> | YES | NO |
| 3. Are Custody Seals on sample containers intact?..... | <u>NONE</u> | YES | NO |
| 4. Is there a COC (Chain-of-Custody) present?..... | | <u>YES</u> | NO |
| 5. Are the COC and bottle labels complete, legible and in agreement?..... | <u>see below</u> | YES | <u>NO</u> |
| 5a. Does the COC contain sample locations?..... | | <u>YES</u> | NO |
| 5b. Does the COC contain date and time of sample collection for all samples?..... | | <u>YES</u> | NO |
| 5c. Does the COC contain sample collectors name?..... | <u>added</u> | YES | <u>NO</u> |
| 5d. Does the COC note the type(s) of preservation for all bottles?..... | <u>added</u> | YES | <u>NO</u> |
| 5e. Does the COC note the number of bottles submitted for each sample?..... | <u>added</u> | YES | <u>NO</u> |
| 5f. Does the COC note the type of sample, composite or grab?..... | | <u>YES</u> | NO |
| 5g. Does the COC note the matrix of the sample(s)?..... | | YES | NO |
| 6. Are all aqueous samples requiring preservation preserved correctly?..... | N/A | YES | NO |
| 7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... | | YES | NO |
| 8. Are all samples within holding times for the requested analyses?..... | | YES | NO |
| 9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... | | YES | NO |
| 10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... | <u>N/A</u> | YES | NO |
| 11. Were the samples received on ice?..... | | <u>YES</u> | NO |
| 12. Were sample temperatures measured at 0.0-6.0°C..... | | <u>YES</u> | NO |
| 13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... | | YES | <u>NO</u> |
| 13a. Are the samples required for SDWA compliance reporting?..... | <u>N/A</u> | YES | NO |
| 13b. Did the client provide a SDWA PWS ID#?..... | <u>N/A</u> | YES | NO |
| 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... | <u>N/A</u> | YES | NO |
| 13d. Did the client provide the SDWA sample location ID/Description?..... | <u>N/A</u> | YES | NO |
| 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... | <u>N/A</u> | YES | NO |

Cooler #: All days
 Temperature (°C): 3
 Thermometer ID: 574
 Radiological (µCi): _____

COMMENTS (Required for all NO responses above and any sample non-conformance):

¹Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis



Chain of Custody Record



urofins Environment Testing America

Client Information		Sampler Shannon Burke		Lab PM Cottman, Hannah L		410-36330 Chain of Custody		No 18548-3588 1							
Client Contact Eric Johnson		Phone 717-512-4559		E-Mail Hannah.Cottman@eurofinset.com		Maryland		Page 1 of 1							
Company WSP USA Corp		PWSID NA		Analysis Requested						Job #					
Address		Due Date Requested:		624.1_PREC, 8260C, 8260C_SIM_14DX 5310C - Low Level TOC 5550B - Tannins and Lignin						Preservation Codes:					
City Herndon		TAT Requested (days): Standard								Total Number of Samples (by # or No.)		Total Number of Containers		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
State, Zip VA, 20171		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								Special Instructions/Note:					
Phone 703-318-3936(Tel)		PO # 31401545 010													
Email eric.johnson@wsp.com		WO #													
Project Name Former Kop-Flex Facility Site		Project # 41001602													
Site		SSOW#													
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wast/woil, BT=Tissue, A=Air)		Preservation Code:					
Column Effluent		4/12/21		0950		G		W		X X X					
Column Influent		4/12/21		0955		G		W		X X X					
Column Effluent-041421		4/14/21		0620		G		W		X X					
Column Influent-041421		4/14/21		0625		G		W		X X					
Column Effluent-041621		4-16-21		0825		G		W		X X					
Column Influent-041621		4-16-21		0830		G		W		X X					
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify)		<input type="checkbox"/> Return To Client		<input checked="" type="checkbox"/> Disposal By Lab		<input type="checkbox"/> Archive For _____ Months		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements:					
Empty Kit Relinquished by		Date		Time		Method of Shipment									
Relinquished by [Signature]		Date/Time 4/12/21 1434		Company S&S Tech		Received by [Signature]		Date/Time 4/12/21 0900		Company WSP					
Relinquished by [Signature]		Date/Time 4-16-21 1050		Company S&S Tech		Received by [Signature]		Date/Time 4/16/21 10:50		Company Eurofins					
Relinquished by [Signature]		Date/Time 4/16/21 16:41		Company S&S Tech		Received by [Signature]		Date/Time 4-16-21 1722		Company Eub					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:				Cooler Temperature(s) *C and Other Remarks:									

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Login Sample Receipt Checklist

Client: WSP USA Corp.

Job Number: 410-36330-1

Login Number: 36330

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Rivera-Santa, Julissa

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300


Laboratory Job ID: 410-37198-1

Client Project/Site: Former Kop-Flex Facility Site

For:

WSP USA Corp.
Attn: Environmental Accounts Payable
13530 Dulles Technology Drive
Suite 300
Herndon, Virginia 20171

Attn: Eric Johnson



Authorized for release by:
5/24/2021 2:48:21 PM

Hannah Cottman, Operations Support Specialist
(717)556-7383

Hannah.Cottman@eurofinset.com

LINKS

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results through
TotalAccess

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Hannah Cottman
Operations Support Specialist
5/24/2021 2:48:21 PM

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Definitions/Glossary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Job ID: 410-37198-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-37198-1

Receipt

The samples were received on 4/23/2021 5:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

SUBCONTRACTING

The following analyses were subcontracted to ALS Environmental:

Low Level TOC

Tannins and Lignins

GC/MS VOA

Method 8260C: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): Trip Blank (410-37198-7). The sample container was received with headspace.

Method 8260C: The continuing calibration verification (CCV) associated with batch 410-120259 recovered outside acceptance criteria, low biased, for Chloromethane and Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Subcontract Lab non-Sister Lab

See attached subcontract report.

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Detection Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Client Sample ID: Column Effluent-041921

Lab Sample ID: 410-37198-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	86		4.0	1.7	ug/L	10		8260C SIM 14D	Total/NA
1,1,1-Trichloroethane	69		1.0	0.30	ug/L	1		8260C	Total/NA
1,1,2-Trichloroethane	0.63	J	1.0	0.20	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	220		1.0	0.20	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	6.8		1.0	0.30	ug/L	1		8260C	Total/NA
2-Butanone	3.9	J	10	0.30	ug/L	1		8260C	Total/NA
Chloroethane	32		1.0	0.20	ug/L	1		8260C	Total/NA
Chloroform	1.0		1.0	0.20	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	6.9		1.0	0.20	ug/L	1		8260C	Total/NA
Methyl tertiary butyl ether	3.5		1.0	0.20	ug/L	1		8260C	Total/NA
Methylene Chloride	2.9		1.0	0.30	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.23	J	1.0	0.20	ug/L	1		8260C	Total/NA
Trichloroethene	1.9		1.0	0.20	ug/L	1		8260C	Total/NA
Vinyl chloride	2.3		1.0	0.20	ug/L	1		8260C	Total/NA
1,1-Dichloroethene - DL	540		10	2.0	ug/L	10		8260C	Total/NA

Client Sample ID: Column Influent-041921

Lab Sample ID: 410-37198-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	87		4.0	1.7	ug/L	10		8260C SIM 14D	Total/NA
1,1,1-Trichloroethane	110		1.0	0.30	ug/L	1		8260C	Total/NA
1,1,2-Trichloroethane	0.70	J	1.0	0.20	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	7.2		1.0	0.30	ug/L	1		8260C	Total/NA
Chloroethane	48		1.0	0.20	ug/L	1		8260C	Total/NA
Chloroform	1.6		1.0	0.20	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	11		1.0	0.20	ug/L	1		8260C	Total/NA
Methyl tertiary butyl ether	2.6		1.0	0.20	ug/L	1		8260C	Total/NA
Methylene Chloride	3.5		1.0	0.30	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.32	J	1.0	0.20	ug/L	1		8260C	Total/NA
Trichloroethene	4.7		1.0	0.20	ug/L	1		8260C	Total/NA
Vinyl chloride	4.3		1.0	0.20	ug/L	1		8260C	Total/NA
1,1-Dichloroethane - DL	290		10	2.0	ug/L	10		8260C	Total/NA
1,1-Dichloroethene - DL	1100		10	2.0	ug/L	10		8260C	Total/NA

Client Sample ID: Column Effluent-042121

Lab Sample ID: 410-37198-3

No Detections.

Client Sample ID: Column Influent-042121

Lab Sample ID: 410-37198-4

No Detections.

Client Sample ID: Column Effluent-042321

Lab Sample ID: 410-37198-5

No Detections.

Client Sample ID: Column Influent-042321

Lab Sample ID: 410-37198-6

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 410-37198-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Client Sample ID: Column Effluent-041921

Lab Sample ID: 410-37198-1

Date Collected: 04/19/21 08:00

Matrix: Water

Date Received: 04/23/21 17:49

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	86		4.0	1.7	ug/L			04/29/21 13:44	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		80 - 120					04/29/21 13:44	10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	69		1.0	0.30	ug/L			04/29/21 01:13	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
1,1,2-Trichloroethane	0.63	J	1.0	0.20	ug/L			04/29/21 01:13	1
1,1-Dichloroethane	220		1.0	0.20	ug/L			04/29/21 01:13	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			04/29/21 01:13	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			04/29/21 01:13	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			04/29/21 01:13	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/29/21 01:13	1
1,2-Dichloroethane	6.8		1.0	0.30	ug/L			04/29/21 01:13	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/29/21 01:13	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/29/21 01:13	1
2-Butanone	3.9	J	10	0.30	ug/L			04/29/21 01:13	1
2-Hexanone	<0.30		10	0.30	ug/L			04/29/21 01:13	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			04/29/21 01:13	1
Acetone	<0.70		20	0.70	ug/L			04/29/21 01:13	1
Benzene	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			04/29/21 01:13	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
Bromoform	<1.0		4.0	1.0	ug/L			04/29/21 01:13	1
Bromomethane	<0.30		1.0	0.30	ug/L			04/29/21 01:13	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			04/29/21 01:13	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
Chloroethane	32		1.0	0.20	ug/L			04/29/21 01:13	1
Chloroform	1.0		1.0	0.20	ug/L			04/29/21 01:13	1
Chloromethane	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
cis-1,2-Dichloroethene	6.9		1.0	0.20	ug/L			04/29/21 01:13	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
Cyclohexane	<1.0		5.0	1.0	ug/L			04/29/21 01:13	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			04/29/21 01:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			04/29/21 01:13	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			04/29/21 01:13	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			04/29/21 01:13	1
Methyl acetate	<0.30		5.0	0.30	ug/L			04/29/21 01:13	1
Methyl tertiary butyl ether	3.5		1.0	0.20	ug/L			04/29/21 01:13	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			04/29/21 01:13	1
Methylene Chloride	2.9		1.0	0.30	ug/L			04/29/21 01:13	1
Naphthalene	<1.0		5.0	1.0	ug/L			04/29/21 01:13	1
o-Xylene	<0.40		1.0	0.40	ug/L			04/29/21 01:13	1

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Client Sample ID: Column Effluent-041921

Lab Sample ID: 410-37198-1

Date Collected: 04/19/21 08:00

Matrix: Water

Date Received: 04/23/21 17:49

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.20		5.0	0.20	ug/L			04/29/21 01:13	1
Tetrachloroethene	0.23	J	1.0	0.20	ug/L			04/29/21 01:13	1
Toluene	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
Trichloroethene	1.9		1.0	0.20	ug/L			04/29/21 01:13	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			04/29/21 01:13	1
Vinyl chloride	2.3		1.0	0.20	ug/L			04/29/21 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		04/29/21 01:13	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/29/21 01:13	1
Dibromofluoromethane (Surr)	95		80 - 120		04/29/21 01:13	1
Toluene-d8 (Surr)	100		80 - 120		04/29/21 01:13	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	540		10	2.0	ug/L			05/03/21 13:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		05/03/21 13:36	10
4-Bromofluorobenzene (Surr)	98		80 - 120		05/03/21 13:36	10
Dibromofluoromethane (Surr)	96		80 - 120		05/03/21 13:36	10
Toluene-d8 (Surr)	100		80 - 120		05/03/21 13:36	10

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Client Sample ID: Column Influent-041921

Lab Sample ID: 410-37198-2

Date Collected: 04/19/21 08:05

Matrix: Water

Date Received: 04/23/21 17:49

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	87		4.0	1.7	ug/L			04/29/21 14:04	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		80 - 120					04/29/21 14:04	10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	110		1.0	0.30	ug/L			04/29/21 01:35	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
1,1,2-Trichloroethane	0.70	J	1.0	0.20	ug/L			04/29/21 01:35	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			04/29/21 01:35	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			04/29/21 01:35	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			04/29/21 01:35	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/29/21 01:35	1
1,2-Dichloroethane	7.2		1.0	0.30	ug/L			04/29/21 01:35	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/29/21 01:35	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/29/21 01:35	1
2-Butanone	<0.30		10	0.30	ug/L			04/29/21 01:35	1
2-Hexanone	<0.30		10	0.30	ug/L			04/29/21 01:35	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			04/29/21 01:35	1
Acetone	<0.70		20	0.70	ug/L			04/29/21 01:35	1
Benzene	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			04/29/21 01:35	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
Bromoform	<1.0		4.0	1.0	ug/L			04/29/21 01:35	1
Bromomethane	<0.30		1.0	0.30	ug/L			04/29/21 01:35	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			04/29/21 01:35	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
Chloroethane	48		1.0	0.20	ug/L			04/29/21 01:35	1
Chloroform	1.6		1.0	0.20	ug/L			04/29/21 01:35	1
Chloromethane	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
cis-1,2-Dichloroethene	11		1.0	0.20	ug/L			04/29/21 01:35	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
Cyclohexane	<1.0		5.0	1.0	ug/L			04/29/21 01:35	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			04/29/21 01:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			04/29/21 01:35	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			04/29/21 01:35	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			04/29/21 01:35	1
Methyl acetate	<0.30		5.0	0.30	ug/L			04/29/21 01:35	1
Methyl tertiary butyl ether	2.6		1.0	0.20	ug/L			04/29/21 01:35	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			04/29/21 01:35	1
Methylene Chloride	3.5		1.0	0.30	ug/L			04/29/21 01:35	1
Naphthalene	<1.0		5.0	1.0	ug/L			04/29/21 01:35	1
o-Xylene	<0.40		1.0	0.40	ug/L			04/29/21 01:35	1
Styrene	<0.20		5.0	0.20	ug/L			04/29/21 01:35	1

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Client Sample ID: Column Influent-041921

Lab Sample ID: 410-37198-2

Date Collected: 04/19/21 08:05

Matrix: Water

Date Received: 04/23/21 17:49

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.32	J	1.0	0.20	ug/L			04/29/21 01:35	1
Toluene	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
Trichloroethene	4.7		1.0	0.20	ug/L			04/29/21 01:35	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			04/29/21 01:35	1
Vinyl chloride	4.3		1.0	0.20	ug/L			04/29/21 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		04/29/21 01:35	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/29/21 01:35	1
Dibromofluoromethane (Surr)	95		80 - 120		04/29/21 01:35	1
Toluene-d8 (Surr)	100		80 - 120		04/29/21 01:35	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	290		10	2.0	ug/L			04/30/21 10:26	10
1,1-Dichloroethene	1100		10	2.0	ug/L			04/30/21 10:26	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		04/30/21 10:26	10
4-Bromofluorobenzene (Surr)	93		80 - 120		04/30/21 10:26	10
Dibromofluoromethane (Surr)	94		80 - 120		04/30/21 10:26	10
Toluene-d8 (Surr)	98		80 - 120		04/30/21 10:26	10

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-37198-7

Date Collected: 04/19/21 00:00

Matrix: Water

Date Received: 04/23/21 17:49

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.17		0.40	0.17	ug/L			04/29/21 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		80 - 120					04/29/21 13:03	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.30		1.0	0.30	ug/L			04/29/21 00:06	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
1,1-Dichloroethane	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
1,1-Dichloroethene	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			04/29/21 00:06	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			04/29/21 00:06	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			04/29/21 00:06	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/29/21 00:06	1
1,2-Dichloroethane	<0.30		1.0	0.30	ug/L			04/29/21 00:06	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/29/21 00:06	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/29/21 00:06	1
2-Butanone	<0.30		10	0.30	ug/L			04/29/21 00:06	1
2-Hexanone	<0.30		10	0.30	ug/L			04/29/21 00:06	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			04/29/21 00:06	1
Acetone	<0.70		20	0.70	ug/L			04/29/21 00:06	1
Benzene	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			04/29/21 00:06	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Bromoform	<1.0		4.0	1.0	ug/L			04/29/21 00:06	1
Bromomethane	<0.30		1.0	0.30	ug/L			04/29/21 00:06	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			04/29/21 00:06	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Chloroethane	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Chloroform	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Chloromethane	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
cis-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Cyclohexane	<1.0		5.0	1.0	ug/L			04/29/21 00:06	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			04/29/21 00:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			04/29/21 00:06	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			04/29/21 00:06	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			04/29/21 00:06	1
Methyl acetate	<0.30		5.0	0.30	ug/L			04/29/21 00:06	1
Methyl tertiary butyl ether	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			04/29/21 00:06	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			04/29/21 00:06	1
Naphthalene	<1.0		5.0	1.0	ug/L			04/29/21 00:06	1

Client Sample Results

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-37198-7

Date Collected: 04/19/21 00:00

Matrix: Water

Date Received: 04/23/21 17:49

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.40		1.0	0.40	ug/L			04/29/21 00:06	1
Styrene	<0.20		5.0	0.20	ug/L			04/29/21 00:06	1
Tetrachloroethene	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Toluene	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Trichloroethene	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/29/21 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		04/29/21 00:06	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/29/21 00:06	1
Dibromofluoromethane (Surr)	93		80 - 120		04/29/21 00:06	1
Toluene-d8 (Surr)	99		80 - 120		04/29/21 00:06	1

Action Limit Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Client Sample ID: Column Effluent-041921

Lab Sample ID: 410-37198-1

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	69		ug/L	200	1.0	8260C	Total/NA
1,1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,1,1,2-Trichloroethane	0.63	J	ug/L	5	1.0	8260C	Total/NA
1,1-Dichloroethane	220		ug/L	90	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	<0.30		ug/L	0.2	5.0	8260C	Total/NA
1,2-Dibromoethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,2-Dichlorobenzene	<0.20		ug/L	600	5.0	8260C	Total/NA
1,2-Dichloroethane	6.8		ug/L	5	1.0	8260C	Total/NA
1,2-Dichloropropane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,3-Dichlorobenzene	<0.20		ug/L	2	5.0	8260C	Total/NA
1,4-Dichlorobenzene	<0.20		ug/L	75	5.0	8260C	Total/NA
2-Butanone	3.9	J	ug/L	700	10	8260C	Total/NA
4-Methyl-2-pentanone	<0.50		ug/L	630	10	8260C	Total/NA
Acetone	<0.70		ug/L	550	20	8260C	Total/NA
Benzene	<0.20		ug/L	5	1.0	8260C	Total/NA
Bromodichloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Bromoform	<1.0		ug/L	80	4.0	8260C	Total/NA
Bromomethane	<0.30		ug/L	0.85	1.0	8260C	Total/NA
Carbon disulfide	<0.20		ug/L	100	5.0	8260C	Total/NA
Carbon tetrachloride	<0.20		ug/L	5	1.0	8260C	Total/NA
Chlorobenzene	<0.20		ug/L	100	1.0	8260C	Total/NA
Chloroethane	32		ug/L	3.6	1.0	8260C	Total/NA
Chloroform	1.0		ug/L	80	1.0	8260C	Total/NA
Chloromethane	<0.20		ug/L	190	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	6.9		ug/L	70	1.0	8260C	Total/NA
cis-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Dibromochloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Ethylbenzene	<0.40		ug/L	700	1.0	8260C	Total/NA
Isopropylbenzene	<0.20		ug/L	66	5.0	8260C	Total/NA
Methyl tertiary butyl ether	3.5		ug/L	20	1.0	8260C	Total/NA
Naphthalene	<1.0		ug/L	0.65	5.0	8260C	Total/NA
o-Xylene	<0.40		ug/L	10000	1.0	8260C	Total/NA
Styrene	<0.20		ug/L	100	5.0	8260C	Total/NA
Tetrachloroethene	0.23	J	ug/L	5	1.0	8260C	Total/NA
Toluene	<0.20		ug/L	1000	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	<0.20		ug/L	100	1.0	8260C	Total/NA
trans-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Trichloroethene	1.9		ug/L	5	1.0	8260C	Total/NA
Vinyl chloride	2.3		ug/L	2	1.0	8260C	Total/NA
1,1-Dichloroethene - DL	540		ug/L	7	10	8260C	Total/NA

Client Sample ID: Column Influent-041921

Lab Sample ID: 410-37198-2

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	110		ug/L	200	1.0	8260C	Total/NA
1,1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,1,1,2-Trichloroethane	0.70	J	ug/L	5	1.0	8260C	Total/NA

Eurofins Lancaster Laboratories Env, LLC

Action Limit Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Client Sample ID: Column Influent-041921 (Continued)

Lab Sample ID: 410-37198-2

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,2-Dibromo-3-Chloropropane	<0.30		ug/L	0.2	5.0	8260C	Total/NA
1,2-Dibromoethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,2-Dichlorobenzene	<0.20		ug/L	600	5.0	8260C	Total/NA
1,2-Dichloroethane	7.2		ug/L	5	1.0	8260C	Total/NA
1,2-Dichloropropane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,3-Dichlorobenzene	<0.20		ug/L	2	5.0	8260C	Total/NA
1,4-Dichlorobenzene	<0.20		ug/L	75	5.0	8260C	Total/NA
2-Butanone	<0.30		ug/L	700	10	8260C	Total/NA
4-Methyl-2-pentanone	<0.50		ug/L	630	10	8260C	Total/NA
Acetone	<0.70		ug/L	550	20	8260C	Total/NA
Benzene	<0.20		ug/L	5	1.0	8260C	Total/NA
Bromodichloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Bromoform	<1.0		ug/L	80	4.0	8260C	Total/NA
Bromomethane	<0.30		ug/L	0.85	1.0	8260C	Total/NA
Carbon disulfide	<0.20		ug/L	100	5.0	8260C	Total/NA
Carbon tetrachloride	<0.20		ug/L	5	1.0	8260C	Total/NA
Chlorobenzene	<0.20		ug/L	100	1.0	8260C	Total/NA
Chloroethane	48		ug/L	3.6	1.0	8260C	Total/NA
Chloroform	1.6		ug/L	80	1.0	8260C	Total/NA
Chloromethane	<0.20		ug/L	190	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	11		ug/L	70	1.0	8260C	Total/NA
cis-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Dibromochloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Ethylbenzene	<0.40		ug/L	700	1.0	8260C	Total/NA
Isopropylbenzene	<0.20		ug/L	66	5.0	8260C	Total/NA
Methyl tertiary butyl ether	2.6		ug/L	20	1.0	8260C	Total/NA
Naphthalene	<1.0		ug/L	0.65	5.0	8260C	Total/NA
o-Xylene	<0.40		ug/L	10000	1.0	8260C	Total/NA
Styrene	<0.20		ug/L	100	5.0	8260C	Total/NA
Tetrachloroethene	0.32	J	ug/L	5	1.0	8260C	Total/NA
Toluene	<0.20		ug/L	1000	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	<0.20		ug/L	100	1.0	8260C	Total/NA
trans-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Trichloroethene	4.7		ug/L	5	1.0	8260C	Total/NA
Vinyl chloride	4.3		ug/L	2	1.0	8260C	Total/NA
1,1-Dichloroethane - DL	290		ug/L	90	10	8260C	Total/NA
1,1-Dichloroethene - DL	1100		ug/L	7	10	8260C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-37198-7

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	<0.30		ug/L	200	1.0	8260C	Total/NA
1,1,1,2-Tetrachloroethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,1,2-Trichloroethane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,1-Dichloroethane	<0.20		ug/L	90	1.0	8260C	Total/NA
1,1-Dichloroethene	<0.20		ug/L	7	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	<0.30		ug/L	0.2	5.0	8260C	Total/NA

Eurofins Lancaster Laboratories Env, LLC

Action Limit Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Client Sample ID: Trip Blank (Continued)

Lab Sample ID: 410-37198-7

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,2-Dibromoethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,2-Dichlorobenzene	<0.20		ug/L	600	5.0	8260C	Total/NA
1,2-Dichloroethane	<0.30		ug/L	5	1.0	8260C	Total/NA
1,2-Dichloropropane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,3-Dichlorobenzene	<0.20		ug/L	2	5.0	8260C	Total/NA
1,4-Dichlorobenzene	<0.20		ug/L	75	5.0	8260C	Total/NA
2-Butanone	<0.30		ug/L	700	10	8260C	Total/NA
4-Methyl-2-pentanone	<0.50		ug/L	630	10	8260C	Total/NA
Acetone	<0.70		ug/L	550	20	8260C	Total/NA
Benzene	<0.20		ug/L	5	1.0	8260C	Total/NA
Bromodichloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Bromoform	<1.0		ug/L	80	4.0	8260C	Total/NA
Bromomethane	<0.30		ug/L	0.85	1.0	8260C	Total/NA
Carbon disulfide	<0.20		ug/L	100	5.0	8260C	Total/NA
Carbon tetrachloride	<0.20		ug/L	5	1.0	8260C	Total/NA
Chlorobenzene	<0.20		ug/L	100	1.0	8260C	Total/NA
Chloroethane	<0.20		ug/L	3.6	1.0	8260C	Total/NA
Chloroform	<0.20		ug/L	80	1.0	8260C	Total/NA
Chloromethane	<0.20		ug/L	190	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	<0.20		ug/L	70	1.0	8260C	Total/NA
cis-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Dibromochloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Ethylbenzene	<0.40		ug/L	700	1.0	8260C	Total/NA
Isopropylbenzene	<0.20		ug/L	66	5.0	8260C	Total/NA
Methyl tertiary butyl ether	<0.20		ug/L	20	1.0	8260C	Total/NA
Naphthalene	<1.0		ug/L	0.65	5.0	8260C	Total/NA
o-Xylene	<0.40		ug/L	10000	1.0	8260C	Total/NA
Styrene	<0.20		ug/L	100	5.0	8260C	Total/NA
Tetrachloroethene	<0.20		ug/L	5	1.0	8260C	Total/NA
Toluene	<0.20		ug/L	1000	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	<0.20		ug/L	100	1.0	8260C	Total/NA
trans-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Trichloroethene	<0.20		ug/L	5	1.0	8260C	Total/NA
Vinyl chloride	<0.20		ug/L	2	1.0	8260C	Total/NA

Surrogate Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
410-37198-1	Column Effluent-041921	100	96	95	100
410-37198-1 - DL	Column Effluent-041921	99	98	96	100
410-37198-2	Column Influent-041921	102	96	95	100
410-37198-2 - DL	Column Influent-041921	103	93	94	98
410-37198-7	Trip Blank	99	96	93	99
LCS 410-120259/4	Lab Control Sample	101	97	93	100
LCS 410-120839/4	Lab Control Sample	101	98	93	100
LCS 410-121563/4	Lab Control Sample	100	98	93	102
LCSD 410-120259/5	Lab Control Sample Dup	101	97	93	100
LCSD 410-120839/5	Lab Control Sample Dup	101	96	93	100
MB 410-120259/7	Method Blank	100	96	94	99
MB 410-120839/7	Method Blank	103	96	94	100
MB 410-121563/6	Method Blank	101	95	94	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		TOL (80-120)
410-37198-1	Column Effluent-041921	91
410-37198-2	Column Influent-041921	90
410-37198-7	Trip Blank	90
LCS 410-120375/4	Lab Control Sample	91
LCSD 410-120375/5	Lab Control Sample Dup	91
MB 410-120375/7	Method Blank	91

Surrogate Legend

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-120259/7

Matrix: Water

Analysis Batch: 120259

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.30		1.0	0.30	ug/L			04/28/21 23:38	1
1,1,1,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
1,1-Dichloroethane	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
1,1-Dichloroethene	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			04/28/21 23:38	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			04/28/21 23:38	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			04/28/21 23:38	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/28/21 23:38	1
1,2-Dichloroethane	<0.30		1.0	0.30	ug/L			04/28/21 23:38	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/28/21 23:38	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/28/21 23:38	1
2-Butanone	<0.30		10	0.30	ug/L			04/28/21 23:38	1
2-Hexanone	<0.30		10	0.30	ug/L			04/28/21 23:38	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			04/28/21 23:38	1
Acetone	<0.70		20	0.70	ug/L			04/28/21 23:38	1
Benzene	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			04/28/21 23:38	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Bromoform	<1.0		4.0	1.0	ug/L			04/28/21 23:38	1
Bromomethane	<0.30		1.0	0.30	ug/L			04/28/21 23:38	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			04/28/21 23:38	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Chloroethane	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Chloroform	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Chloromethane	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
cis-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Cyclohexane	<1.0		5.0	1.0	ug/L			04/28/21 23:38	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			04/28/21 23:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			04/28/21 23:38	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			04/28/21 23:38	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			04/28/21 23:38	1
Methyl acetate	<0.30		5.0	0.30	ug/L			04/28/21 23:38	1
Methyl tertiary butyl ether	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			04/28/21 23:38	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			04/28/21 23:38	1
Naphthalene	<1.0		5.0	1.0	ug/L			04/28/21 23:38	1
o-Xylene	<0.40		1.0	0.40	ug/L			04/28/21 23:38	1
Styrene	<0.20		5.0	0.20	ug/L			04/28/21 23:38	1
Tetrachloroethene	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Toluene	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-120259/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 120259

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Trichloroethene	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/28/21 23:38	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		04/28/21 23:38	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/28/21 23:38	1
Dibromofluoromethane (Surr)	94		80 - 120		04/28/21 23:38	1
Toluene-d8 (Surr)	99		80 - 120		04/28/21 23:38	1

Lab Sample ID: LCS 410-120259/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 120259

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	20.0	16.7		ug/L		83	67 - 126
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	72 - 120
1,1,2-Trichloroethane	20.0	18.8		ug/L		94	80 - 120
1,1-Dichloroethane	20.0	17.0		ug/L		85	80 - 120
1,1-Dichloroethene	20.0	19.7		ug/L		99	80 - 131
1,2,3-Trichlorobenzene	20.0	17.8		ug/L		89	66 - 120
1,2,4-Trichlorobenzene	20.0	17.4		ug/L		87	63 - 120
1,2-Dibromo-3-Chloropropane	20.0	18.8		ug/L		94	47 - 131
1,2-Dibromoethane	20.0	18.2		ug/L		91	77 - 120
1,2-Dichlorobenzene	20.0	18.3		ug/L		92	80 - 120
1,2-Dichloroethane	20.0	16.2		ug/L		81	73 - 124
1,2-Dichloropropane	20.0	17.5		ug/L		88	80 - 120
1,3-Dichlorobenzene	20.0	18.4		ug/L		92	80 - 120
1,4-Dichlorobenzene	20.0	18.2		ug/L		91	80 - 120
2-Butanone	150	139		ug/L		93	59 - 135
2-Hexanone	100	91.0		ug/L		91	56 - 135
4-Methyl-2-pentanone	100	87.4		ug/L		87	62 - 133
Acetone	150	140		ug/L		93	54 - 157
Benzene	20.0	18.2		ug/L		91	80 - 120
Bromochloromethane	20.0	17.6		ug/L		88	80 - 120
Bromodichloromethane	20.0	16.9		ug/L		84	71 - 120
Bromoform	20.0	16.3		ug/L		82	51 - 120
Bromomethane	20.0	18.8		ug/L		94	53 - 128
Carbon disulfide	20.0	20.1		ug/L		100	65 - 128
Carbon tetrachloride	20.0	16.1		ug/L		81	64 - 134
Chlorobenzene	20.0	18.5		ug/L		92	80 - 120
Chloroethane	20.0	17.9		ug/L		89	55 - 123
Chloroform	20.0	17.2		ug/L		86	80 - 120
Chloromethane	20.0	16.9		ug/L		85	56 - 121
cis-1,2-Dichloroethene	20.0	18.3		ug/L		91	80 - 125
cis-1,3-Dichloropropene	20.0	17.5		ug/L		88	75 - 120
Cyclohexane	20.0	17.8		ug/L		89	68 - 126

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-120259/4

Matrix: Water

Analysis Batch: 120259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	20.0	17.6		ug/L		88	71 - 120
Dichlorodifluoromethane	20.0	17.2		ug/L		86	41 - 127
Ethylbenzene	20.0	18.1		ug/L		91	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.0		ug/L		95	73 - 139
Isopropylbenzene	20.0	17.3		ug/L		87	80 - 120
m&p-Xylene	40.0	35.9		ug/L		90	80 - 120
Methyl acetate	20.0	17.8		ug/L		89	54 - 136
Methyl tertiary butyl ether	20.0	18.0		ug/L		90	69 - 122
Methylcyclohexane	20.0	16.7		ug/L		84	67 - 121
Methylene Chloride	20.0	19.3		ug/L		97	80 - 120
Naphthalene	20.0	19.2		ug/L		96	53 - 124
o-Xylene	20.0	17.9		ug/L		90	80 - 120
Styrene	20.0	18.0		ug/L		90	80 - 120
Tetrachloroethene	20.0	17.1		ug/L		85	80 - 120
Toluene	20.0	18.3		ug/L		91	80 - 120
trans-1,2-Dichloroethene	20.0	18.4		ug/L		92	80 - 126
trans-1,3-Dichloropropene	20.0	18.2		ug/L		91	67 - 120
Trichloroethene	20.0	17.8		ug/L		89	80 - 120
Trichlorofluoromethane	20.0	16.7		ug/L		84	55 - 135
Vinyl chloride	20.0	17.9		ug/L		89	56 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	93		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 410-120259/5

Matrix: Water

Analysis Batch: 120259

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	16.4		ug/L		82	67 - 126	2	30
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		104	72 - 120	3	30
1,1,2-Trichloroethane	20.0	19.2		ug/L		96	80 - 120	2	30
1,1-Dichloroethane	20.0	17.3		ug/L		87	80 - 120	2	30
1,1-Dichloroethene	20.0	20.1		ug/L		101	80 - 131	2	30
1,2,3-Trichlorobenzene	20.0	18.1		ug/L		90	66 - 120	1	30
1,2,4-Trichlorobenzene	20.0	17.7		ug/L		89	63 - 120	2	30
1,2-Dibromo-3-Chloropropane	20.0	18.8		ug/L		94	47 - 131	0	30
1,2-Dibromoethane	20.0	18.7		ug/L		93	77 - 120	2	30
1,2-Dichlorobenzene	20.0	18.7		ug/L		94	80 - 120	2	30
1,2-Dichloroethane	20.0	16.9		ug/L		84	73 - 124	4	30
1,2-Dichloropropane	20.0	18.3		ug/L		91	80 - 120	4	30
1,3-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120	1	30
1,4-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 120	3	30
2-Butanone	150	141		ug/L		94	59 - 135	2	30
2-Hexanone	100	93.4		ug/L		93	56 - 135	3	30

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-120259/5

Matrix: Water

Analysis Batch: 120259

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
		Result	Qualifier				Limits		Limit
4-Methyl-2-pentanone	100	89.5		ug/L		90	62 - 133	2	30
Acetone	150	141		ug/L		94	54 - 157	1	30
Benzene	20.0	18.3		ug/L		91	80 - 120	0	30
Bromochloromethane	20.0	17.5		ug/L		87	80 - 120	1	30
Bromodichloromethane	20.0	17.4		ug/L		87	71 - 120	3	30
Bromoform	20.0	16.7		ug/L		84	51 - 120	3	30
Bromomethane	20.0	18.8		ug/L		94	53 - 128	0	30
Carbon disulfide	20.0	20.0		ug/L		100	65 - 128	0	30
Carbon tetrachloride	20.0	16.2		ug/L		81	64 - 134	0	30
Chlorobenzene	20.0	18.7		ug/L		94	80 - 120	1	30
Chloroethane	20.0	18.0		ug/L		90	55 - 123	1	30
Chloroform	20.0	17.5		ug/L		88	80 - 120	2	30
Chloromethane	20.0	16.2		ug/L		81	56 - 121	5	30
cis-1,2-Dichloroethene	20.0	18.6		ug/L		93	80 - 125	2	30
cis-1,3-Dichloropropene	20.0	18.0		ug/L		90	75 - 120	2	30
Cyclohexane	20.0	18.2		ug/L		91	68 - 126	2	30
Dibromochloromethane	20.0	17.7		ug/L		88	71 - 120	0	30
Dichlorodifluoromethane	20.0	17.4		ug/L		87	41 - 127	1	30
Ethylbenzene	20.0	18.2		ug/L		91	80 - 120	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.8		ug/L		94	73 - 139	1	30
Isopropylbenzene	20.0	17.5		ug/L		88	80 - 120	1	30
m&p-Xylene	40.0	36.9		ug/L		92	80 - 120	3	30
Methyl acetate	20.0	17.6		ug/L		88	54 - 136	1	30
Methyl tertiary butyl ether	20.0	18.2		ug/L		91	69 - 122	1	30
Methylcyclohexane	20.0	17.2		ug/L		86	67 - 121	3	30
Methylene Chloride	20.0	19.5		ug/L		97	80 - 120	1	30
Naphthalene	20.0	19.5		ug/L		98	53 - 124	1	30
o-Xylene	20.0	18.4		ug/L		92	80 - 120	2	30
Styrene	20.0	18.3		ug/L		91	80 - 120	2	30
Tetrachloroethene	20.0	17.4		ug/L		87	80 - 120	2	30
Toluene	20.0	18.7		ug/L		94	80 - 120	2	30
trans-1,2-Dichloroethene	20.0	18.4		ug/L		92	80 - 126	0	30
trans-1,3-Dichloropropene	20.0	18.5		ug/L		93	67 - 120	2	30
Trichloroethene	20.0	18.2		ug/L		91	80 - 120	2	30
Trichlorofluoromethane	20.0	16.4		ug/L		82	55 - 135	2	30
Vinyl chloride	20.0	17.8		ug/L		89	56 - 120	0	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	93		80 - 120
Toluene-d8 (Surr)	100		80 - 120

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-120839/7

Matrix: Water

Analysis Batch: 120839

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.30		1.0	0.30	ug/L			04/30/21 01:23	1
1,1,1,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
1,1-Dichloroethane	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
1,1-Dichloroethene	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			04/30/21 01:23	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			04/30/21 01:23	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			04/30/21 01:23	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/30/21 01:23	1
1,2-Dichloroethane	<0.30		1.0	0.30	ug/L			04/30/21 01:23	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/30/21 01:23	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			04/30/21 01:23	1
2-Butanone	<0.30		10	0.30	ug/L			04/30/21 01:23	1
2-Hexanone	<0.30		10	0.30	ug/L			04/30/21 01:23	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			04/30/21 01:23	1
Acetone	<0.70		20	0.70	ug/L			04/30/21 01:23	1
Benzene	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			04/30/21 01:23	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Bromoform	<1.0		4.0	1.0	ug/L			04/30/21 01:23	1
Bromomethane	<0.30		1.0	0.30	ug/L			04/30/21 01:23	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			04/30/21 01:23	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Chloroethane	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Chloroform	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Chloromethane	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
cis-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Cyclohexane	<1.0		5.0	1.0	ug/L			04/30/21 01:23	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			04/30/21 01:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			04/30/21 01:23	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			04/30/21 01:23	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			04/30/21 01:23	1
Methyl acetate	<0.30		5.0	0.30	ug/L			04/30/21 01:23	1
Methyl tertiary butyl ether	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			04/30/21 01:23	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			04/30/21 01:23	1
Naphthalene	<1.0		5.0	1.0	ug/L			04/30/21 01:23	1
o-Xylene	<0.40		1.0	0.40	ug/L			04/30/21 01:23	1
Styrene	<0.20		5.0	0.20	ug/L			04/30/21 01:23	1
Tetrachloroethene	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Toluene	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-120839/7

Matrix: Water

Analysis Batch: 120839

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Trichloroethene	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/30/21 01:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		04/30/21 01:23	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/30/21 01:23	1
Dibromofluoromethane (Surr)	94		80 - 120		04/30/21 01:23	1
Toluene-d8 (Surr)	100		80 - 120		04/30/21 01:23	1

Lab Sample ID: LCS 410-120839/4

Matrix: Water

Analysis Batch: 120839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	20.0	16.5		ug/L		82	67 - 126
1,1,2,2-Tetrachloroethane	20.0	21.3		ug/L		106	72 - 120
1,1,2-Trichloroethane	20.0	19.6		ug/L		98	80 - 120
1,1-Dichloroethane	20.0	17.8		ug/L		89	80 - 120
1,1-Dichloroethene	20.0	19.1		ug/L		96	80 - 131
1,2,3-Trichlorobenzene	20.0	19.0		ug/L		95	66 - 120
1,2,4-Trichlorobenzene	20.0	18.5		ug/L		93	63 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.0		ug/L		95	47 - 131
1,2-Dibromoethane	20.0	18.8		ug/L		94	77 - 120
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120
1,2-Dichloroethane	20.0	16.7		ug/L		84	73 - 124
1,2-Dichloropropane	20.0	18.3		ug/L		91	80 - 120
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	19.5		ug/L		98	80 - 120
2-Butanone	150	140		ug/L		93	59 - 135
2-Hexanone	100	92.6		ug/L		93	56 - 135
4-Methyl-2-pentanone	100	88.2		ug/L		88	62 - 133
Acetone	150	146		ug/L		97	54 - 157
Benzene	20.0	18.8		ug/L		94	80 - 120
Bromochloromethane	20.0	17.9		ug/L		89	80 - 120
Bromodichloromethane	20.0	17.4		ug/L		87	71 - 120
Bromoform	20.0	16.8		ug/L		84	51 - 120
Bromomethane	20.0	20.1		ug/L		101	53 - 128
Carbon disulfide	20.0	19.7		ug/L		98	65 - 128
Carbon tetrachloride	20.0	15.5		ug/L		78	64 - 134
Chlorobenzene	20.0	19.3		ug/L		96	80 - 120
Chloroethane	20.0	19.6		ug/L		98	55 - 123
Chloroform	20.0	17.7		ug/L		88	80 - 120
Chloromethane	20.0	18.7		ug/L		93	56 - 121
cis-1,2-Dichloroethene	20.0	19.2		ug/L		96	80 - 125
cis-1,3-Dichloropropene	20.0	18.2		ug/L		91	75 - 120
Cyclohexane	20.0	17.1		ug/L		86	68 - 126

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-120839/4

Matrix: Water

Analysis Batch: 120839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	20.0	17.9		ug/L		89	71 - 120
Dichlorodifluoromethane	20.0	18.4		ug/L		92	41 - 127
Ethylbenzene	20.0	18.5		ug/L		93	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.9		ug/L		90	73 - 139
Isopropylbenzene	20.0	17.7		ug/L		88	80 - 120
m&p-Xylene	40.0	37.4		ug/L		93	80 - 120
Methyl acetate	20.0	18.1		ug/L		91	54 - 136
Methyl tertiary butyl ether	20.0	18.4		ug/L		92	69 - 122
Methylcyclohexane	20.0	16.5		ug/L		83	67 - 121
Methylene Chloride	20.0	19.8		ug/L		99	80 - 120
Naphthalene	20.0	20.0		ug/L		100	53 - 124
o-Xylene	20.0	18.4		ug/L		92	80 - 120
Styrene	20.0	18.6		ug/L		93	80 - 120
Tetrachloroethene	20.0	17.1		ug/L		86	80 - 120
Toluene	20.0	19.2		ug/L		96	80 - 120
trans-1,2-Dichloroethene	20.0	18.5		ug/L		92	80 - 126
trans-1,3-Dichloropropene	20.0	18.5		ug/L		93	67 - 120
Trichloroethene	20.0	18.1		ug/L		90	80 - 120
Trichlorofluoromethane	20.0	16.2		ug/L		81	55 - 135
Vinyl chloride	20.0	19.4		ug/L		97	56 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	93		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 410-120839/5

Matrix: Water

Analysis Batch: 120839

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	15.9		ug/L		80	67 - 126	3	30
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		104	72 - 120	3	30
1,1,2-Trichloroethane	20.0	19.0		ug/L		95	80 - 120	3	30
1,1-Dichloroethane	20.0	17.2		ug/L		86	80 - 120	3	30
1,1-Dichloroethene	20.0	18.9		ug/L		95	80 - 131	1	30
1,2,3-Trichlorobenzene	20.0	18.5		ug/L		93	66 - 120	2	30
1,2,4-Trichlorobenzene	20.0	18.1		ug/L		91	63 - 120	2	30
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/L		96	47 - 131	1	30
1,2-Dibromoethane	20.0	18.5		ug/L		92	77 - 120	2	30
1,2-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120	1	30
1,2-Dichloroethane	20.0	16.1		ug/L		80	73 - 124	4	30
1,2-Dichloropropane	20.0	17.7		ug/L		88	80 - 120	3	30
1,3-Dichlorobenzene	20.0	19.0		ug/L		95	80 - 120	1	30
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	80 - 120	3	30
2-Butanone	150	139		ug/L		93	59 - 135	1	30
2-Hexanone	100	92.0		ug/L		92	56 - 135	1	30

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-120839/5

Matrix: Water

Analysis Batch: 120839

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
		Result	Qualifier				Limits		Limit
4-Methyl-2-pentanone	100	87.5		ug/L		87	62 - 133	1	30
Acetone	150	140		ug/L		93	54 - 157	4	30
Benzene	20.0	18.2		ug/L		91	80 - 120	3	30
Bromochloromethane	20.0	17.5		ug/L		88	80 - 120	2	30
Bromodichloromethane	20.0	17.1		ug/L		85	71 - 120	2	30
Bromoform	20.0	16.4		ug/L		82	51 - 120	3	30
Bromomethane	20.0	19.4		ug/L		97	53 - 128	4	30
Carbon disulfide	20.0	19.3		ug/L		96	65 - 128	2	30
Carbon tetrachloride	20.0	15.7		ug/L		78	64 - 134	1	30
Chlorobenzene	20.0	18.5		ug/L		93	80 - 120	4	30
Chloroethane	20.0	18.2		ug/L		91	55 - 123	7	30
Chloroform	20.0	17.4		ug/L		87	80 - 120	2	30
Chloromethane	20.0	18.6		ug/L		93	56 - 121	0	30
cis-1,2-Dichloroethene	20.0	18.9		ug/L		94	80 - 125	2	30
cis-1,3-Dichloropropene	20.0	17.6		ug/L		88	75 - 120	3	30
Cyclohexane	20.0	16.7		ug/L		84	68 - 126	2	30
Dibromochloromethane	20.0	17.7		ug/L		88	71 - 120	1	30
Dichlorodifluoromethane	20.0	18.1		ug/L		91	41 - 127	1	30
Ethylbenzene	20.0	18.2		ug/L		91	80 - 120	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.3		ug/L		86	73 - 139	4	30
Isopropylbenzene	20.0	17.2		ug/L		86	80 - 120	3	30
m&p-Xylene	40.0	36.4		ug/L		91	80 - 120	3	30
Methyl acetate	20.0	17.8		ug/L		89	54 - 136	1	30
Methyl tertiary butyl ether	20.0	18.0		ug/L		90	69 - 122	2	30
Methylcyclohexane	20.0	16.0		ug/L		80	67 - 121	3	30
Methylene Chloride	20.0	19.5		ug/L		97	80 - 120	2	30
Naphthalene	20.0	19.6		ug/L		98	53 - 124	2	30
o-Xylene	20.0	18.3		ug/L		92	80 - 120	0	30
Styrene	20.0	18.3		ug/L		91	80 - 120	2	30
Tetrachloroethene	20.0	16.7		ug/L		83	80 - 120	3	30
Toluene	20.0	18.6		ug/L		93	80 - 120	3	30
trans-1,2-Dichloroethene	20.0	18.5		ug/L		93	80 - 126	0	30
trans-1,3-Dichloropropene	20.0	18.6		ug/L		93	67 - 120	0	30
Trichloroethene	20.0	17.5		ug/L		88	80 - 120	3	30
Trichlorofluoromethane	20.0	16.1		ug/L		81	55 - 135	0	30
Vinyl chloride	20.0	19.2		ug/L		96	56 - 120	1	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	93		80 - 120
Toluene-d8 (Surr)	100		80 - 120

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-121563/6

Matrix: Water

Analysis Batch: 121563

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.30		1.0	0.30	ug/L			05/03/21 09:54	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
1,1-Dichloroethane	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
1,1-Dichloroethene	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			05/03/21 09:54	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			05/03/21 09:54	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			05/03/21 09:54	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/03/21 09:54	1
1,2-Dichloroethane	<0.30		1.0	0.30	ug/L			05/03/21 09:54	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/03/21 09:54	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/03/21 09:54	1
2-Butanone	<0.30		10	0.30	ug/L			05/03/21 09:54	1
2-Hexanone	<0.30		10	0.30	ug/L			05/03/21 09:54	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			05/03/21 09:54	1
Acetone	<0.70		20	0.70	ug/L			05/03/21 09:54	1
Benzene	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			05/03/21 09:54	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Bromoform	<1.0		4.0	1.0	ug/L			05/03/21 09:54	1
Bromomethane	<0.30		1.0	0.30	ug/L			05/03/21 09:54	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			05/03/21 09:54	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Chloroethane	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Chloroform	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Chloromethane	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
cis-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Cyclohexane	<1.0		5.0	1.0	ug/L			05/03/21 09:54	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			05/03/21 09:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			05/03/21 09:54	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			05/03/21 09:54	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			05/03/21 09:54	1
Methyl acetate	<0.30		5.0	0.30	ug/L			05/03/21 09:54	1
Methyl tertiary butyl ether	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			05/03/21 09:54	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			05/03/21 09:54	1
Naphthalene	<1.0		5.0	1.0	ug/L			05/03/21 09:54	1
o-Xylene	<0.40		1.0	0.40	ug/L			05/03/21 09:54	1
Styrene	<0.20		5.0	0.20	ug/L			05/03/21 09:54	1
Tetrachloroethene	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Toluene	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-121563/6

Matrix: Water

Analysis Batch: 121563

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Trichloroethene	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/03/21 09:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		05/03/21 09:54	1
4-Bromofluorobenzene (Surr)	95		80 - 120		05/03/21 09:54	1
Dibromofluoromethane (Surr)	94		80 - 120		05/03/21 09:54	1
Toluene-d8 (Surr)	99		80 - 120		05/03/21 09:54	1

Lab Sample ID: LCS 410-121563/4

Matrix: Water

Analysis Batch: 121563

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	20.0	18.3		ug/L		91	67 - 126
1,1,2,2-Tetrachloroethane	20.0	22.7		ug/L		113	72 - 120
1,1,2-Trichloroethane	20.0	20.9		ug/L		104	80 - 120
1,1-Dichloroethane	20.0	19.3		ug/L		96	80 - 120
1,1-Dichloroethene	20.0	22.0		ug/L		110	80 - 131
1,2,3-Trichlorobenzene	20.0	20.4		ug/L		102	66 - 120
1,2,4-Trichlorobenzene	20.0	20.0		ug/L		100	63 - 120
1,2-Dibromo-3-Chloropropane	20.0	20.7		ug/L		104	47 - 131
1,2-Dibromoethane	20.0	20.0		ug/L		100	77 - 120
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 120
1,2-Dichloroethane	20.0	17.6		ug/L		88	73 - 124
1,2-Dichloropropane	20.0	19.9		ug/L		99	80 - 120
1,3-Dichlorobenzene	20.0	20.7		ug/L		104	80 - 120
1,4-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 120
2-Butanone	150	152		ug/L		101	59 - 135
2-Hexanone	100	100		ug/L		100	56 - 135
4-Methyl-2-pentanone	100	95.2		ug/L		95	62 - 133
Acetone	150	158		ug/L		105	54 - 157
Benzene	20.0	20.2		ug/L		101	80 - 120
Bromochloromethane	20.0	18.1		ug/L		91	80 - 120
Bromodichloromethane	20.0	19.0		ug/L		95	71 - 120
Bromoform	20.0	18.3		ug/L		91	51 - 120
Bromomethane	20.0	20.9		ug/L		104	53 - 128
Carbon disulfide	20.0	22.4		ug/L		112	65 - 128
Carbon tetrachloride	20.0	17.9		ug/L		89	64 - 134
Chlorobenzene	20.0	20.5		ug/L		103	80 - 120
Chloroethane	20.0	20.5		ug/L		102	55 - 123
Chloroform	20.0	18.8		ug/L		94	80 - 120
Chloromethane	20.0	19.1		ug/L		95	56 - 121
cis-1,2-Dichloroethene	20.0	20.6		ug/L		103	80 - 125
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	75 - 120
Cyclohexane	20.0	19.8		ug/L		99	68 - 126

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-121563/4

Matrix: Water

Analysis Batch: 121563

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	20.0	19.4		ug/L		97	71 - 120
Dichlorodifluoromethane	20.0	18.1		ug/L		91	41 - 127
Ethylbenzene	20.0	20.5		ug/L		102	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.2		ug/L		101	73 - 139
Isopropylbenzene	20.0	19.7		ug/L		98	80 - 120
m&p-Xylene	40.0	40.9		ug/L		102	80 - 120
Methyl acetate	20.0	19.1		ug/L		96	54 - 136
Methyl tertiary butyl ether	20.0	19.1		ug/L		96	69 - 122
Methylcyclohexane	20.0	18.3		ug/L		92	67 - 121
Methylene Chloride	20.0	21.1		ug/L		105	80 - 120
Naphthalene	20.0	21.5		ug/L		108	53 - 124
o-Xylene	20.0	20.4		ug/L		102	80 - 120
Styrene	20.0	20.3		ug/L		101	80 - 120
Tetrachloroethene	20.0	19.0		ug/L		95	80 - 120
Toluene	20.0	20.9		ug/L		105	80 - 120
trans-1,2-Dichloroethene	20.0	20.8		ug/L		104	80 - 126
trans-1,3-Dichloropropene	20.0	20.6		ug/L		103	67 - 120
Trichloroethene	20.0	20.2		ug/L		101	80 - 120
Trichlorofluoromethane	20.0	17.6		ug/L		88	55 - 135
Vinyl chloride	20.0	20.6		ug/L		103	56 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	93		80 - 120
Toluene-d8 (Surr)	102		80 - 120

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-120375/7

Matrix: Water

Analysis Batch: 120375

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.17		0.40	0.17	ug/L			04/29/21 12:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		80 - 120		04/29/21 12:26	1

Lab Sample ID: LCS 410-120375/4

Matrix: Water

Analysis Batch: 120375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	4.81	4.65		ug/L		97	74 - 133

QC Sample Results

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-120375/4

Matrix: Water

Analysis Batch: 120375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Toluene-d8 (Surr)	91		80 - 120

Lab Sample ID: LCSD 410-120375/5

Matrix: Water

Analysis Batch: 120375

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

<u>Analyte</u>	<u>Spike</u>	LCSD		<u>Unit</u>	<u>D</u>	<u>%Rec</u>	%Rec.		RPD	
		<u>Result</u>	<u>Qualifier</u>				<u>Limits</u>	<u>RPD</u>	<u>Limit</u>	
1,4-Dioxane	4.81	4.45		ug/L		93	74 - 133	4	30	

	LCSD	LCSD	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Toluene-d8 (Surr)	91		80 - 120

QC Association Summary

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

GC/MS VOA

Analysis Batch: 120259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37198-1	Column Effluent-041921	Total/NA	Water	8260C	
410-37198-2	Column Influent-041921	Total/NA	Water	8260C	
410-37198-7	Trip Blank	Total/NA	Water	8260C	
MB 410-120259/7	Method Blank	Total/NA	Water	8260C	
LCS 410-120259/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 410-120259/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 120375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37198-1	Column Effluent-041921	Total/NA	Water	8260C SIM 14D	
410-37198-2	Column Influent-041921	Total/NA	Water	8260C SIM 14D	
410-37198-7	Trip Blank	Total/NA	Water	8260C SIM 14D	
MB 410-120375/7	Method Blank	Total/NA	Water	8260C SIM 14D	
LCS 410-120375/4	Lab Control Sample	Total/NA	Water	8260C SIM 14D	
LCSD 410-120375/5	Lab Control Sample Dup	Total/NA	Water	8260C SIM 14D	

Analysis Batch: 120839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37198-2 - DL	Column Influent-041921	Total/NA	Water	8260C	
MB 410-120839/7	Method Blank	Total/NA	Water	8260C	
LCS 410-120839/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 410-120839/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 121563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37198-1 - DL	Column Effluent-041921	Total/NA	Water	8260C	
MB 410-121563/6	Method Blank	Total/NA	Water	8260C	
LCS 410-121563/4	Lab Control Sample	Total/NA	Water	8260C	



Lab Chronicle

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Client Sample ID: Column Effluent-041921

Lab Sample ID: 410-37198-1

Date Collected: 04/19/21 08:00

Matrix: Water

Date Received: 04/23/21 17:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	120259	04/29/21 01:13	ULCP	ELLE
Total/NA	Analysis	8260C	DL	10	121563	05/03/21 13:36	LCW8	ELLE
Total/NA	Analysis	8260C SIM 14D		10	120375	04/29/21 13:44	USEJ	ELLE

Client Sample ID: Column Influent-041921

Lab Sample ID: 410-37198-2

Date Collected: 04/19/21 08:05

Matrix: Water

Date Received: 04/23/21 17:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	120259	04/29/21 01:35	ULCP	ELLE
Total/NA	Analysis	8260C	DL	10	120839	04/30/21 10:26	URR2	ELLE
Total/NA	Analysis	8260C SIM 14D		10	120375	04/29/21 14:04	USEJ	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-37198-7

Date Collected: 04/19/21 00:00

Matrix: Water

Date Received: 04/23/21 17:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	120259	04/29/21 00:06	ULCP	ELLE
Total/NA	Analysis	8260C SIM 14D		1	120375	04/29/21 13:03	USEJ	ELLE

Laboratory References:

ALS MTown = ALS Environmental - Middletown, PA, 301 Fulling Mill Road, Middletown, PA 17057
 ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,4-Dichlorobenzene
8260C		Water	2-Butanone
8260C		Water	2-Hexanone
8260C		Water	4-Methyl-2-pentanone
8260C		Water	Acetone
8260C		Water	Benzene
8260C		Water	Bromochloromethane
8260C		Water	Bromodichloromethane
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Cyclohexane
8260C		Water	Dibromochloromethane
8260C		Water	Dichlorodifluoromethane
8260C		Water	Ethylbenzene
8260C		Water	Isopropylbenzene
8260C		Water	m&p-Xylene
8260C		Water	Methyl acetate
8260C		Water	Methyl tertiary butyl ether
8260C		Water	Methylcyclohexane
8260C		Water	Methylene Chloride
8260C		Water	Naphthalene
8260C		Water	o-Xylene
8260C		Water	Styrene

Accreditation/Certification Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	06-30-22
8260C	Water	Tetrachloroethene	
8260C	Water	Toluene	
8260C	Water	trans-1,2-Dichloroethene	
8260C	Water	trans-1,3-Dichloropropene	
8260C	Water	Trichloroethene	
8260C	Water	Trichlorofluoromethane	
8260C	Water	Vinyl chloride	
8260C SIM 14D	Water	1,4-Dioxane	

Method Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C SIM 14D	Volatile Organic Compounds (GC/MS)	SW846	ELLE
5310C	SM 5310C TOC	SM18	ALS MTown
5550B	SM 5550BTannins and Lignins	SM18	ALS MTown
5030C	Purge and Trap	SW846	ELLE

Protocol References:

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ALS MTown = ALS Environmental - Middletown, PA, 301 Fulling Mill Road, Middletown, PA 17057

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Sample Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-37198-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-37198-1	Column Effluent-041921	Water	04/19/21 08:00	04/23/21 17:49	
410-37198-2	Column Influent-041921	Water	04/19/21 08:05	04/23/21 17:49	
410-37198-3	Column Effluent-042121	Water	04/21/21 08:10	04/23/21 17:49	
410-37198-4	Column Influent-042121	Water	04/21/21 08:15	04/23/21 17:49	
410-37198-5	Column Effluent-042321	Water	04/23/21 09:50	04/23/21 17:49	
410-37198-6	Column Influent-042321	Water	04/23/21 09:55	04/23/21 17:49	
410-37198-7	Trip Blank	Water	04/19/21 00:00	04/23/21 17:49	

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May 24, 2021

ENV Subcontracting
Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Certificate of Analysis

Project Name: 2020-WET CHEM PRICING	Workorder: 3171839
Purchase Order:	Workorder ID: 410-37198-1

Dear ENV Subcontracting:

Enclosed are the analytical results for samples received by the laboratory on Monday, April 26, 2021.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903



Ms. Sarah S Leung
Project Coordinator

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

301 Fulling Mill Road - Middletown, PA 17057 - Phone: 717-944-5541 - Fax: 717-944-1430 - www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

SAMPLE SUMMARY

Workorder: 3171839 410-37198-1

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3171839001	Column Effluent-041921	Water	4/19/2021 08:00	4/26/2021 12:51	Collected by Client
3171839002	Column Influent-041921	Water	4/19/2021 08:05	4/26/2021 12:51	Collected by Client
3171839003	Column Effluent-042121	Water	4/21/2021 08:10	4/26/2021 12:51	Collected by Client
3171839004	Column Influent-042121	Water	4/21/2021 08:15	4/26/2021 12:51	Collected by Client
3171839005	Column Effluent-042321	Water	4/23/2021 09:50	4/26/2021 12:51	Collected by Client
3171839006	Column Influent-042321	Water	4/23/2021 09:55	4/26/2021 12:51	Collected by Client

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 3171839 410-37198-1

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

PROJECT SUMMARY

Workorder: 3171839 410-37198-1

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

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ANALYTICAL RESULTS

Workorder: 3171839 410-37198-1

Lab ID: **3171839001** Date Collected: 4/19/2021 08:00 Matrix: Water
 Sample ID: **Column Effluent-041921** Date Received: 4/26/2021 12:51

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	0.02	S5550B-10		5/24/21 10:15	MBS	A
Total Organic Carbon (TOC)	0.76	C	mg/L	0.50	0.18	SM5310B-2011		5/6/21 20:10	PAG	B



Ms. Sarah S Leung
 Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3171839 410-37198-1

Lab ID: **3171839002** Date Collected: 4/19/2021 08:05 Matrix: Water
 Sample ID: **Column Influent-041921** Date Received: 4/26/2021 12:51

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	0.02	S5550B-10		5/24/21 10:15	MBS	A
Total Organic Carbon (TOC)	0.94	C	mg/L	0.50	0.18	SM5310B-2011		5/6/21 04:03	PAG	B



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ANALYTICAL RESULTS

Workorder: 3171839 410-37198-1

Lab ID: **3171839003** Date Collected: 4/21/2021 08:10 Matrix: Water
 Sample ID: **Column Effluent-042121** Date Received: 4/26/2021 12:51

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	0.02	S5550B-10		5/24/21 10:15	MBS	A
Total Organic Carbon (TOC)	0.68	C	mg/L	0.50	0.18	SM5310B-2011		5/6/21 04:03	PAG	B



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ANALYTICAL RESULTS

Workorder: 3171839 410-37198-1

Lab ID: **3171839004** Date Collected: 4/21/2021 08:15 Matrix: Water
 Sample ID: **Column Influent-042121** Date Received: 4/26/2021 12:51

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	0.02	S5550B-10		5/24/21 10:15	MBS	A
Total Organic Carbon (TOC)	0.72	C	mg/L	0.50	0.18	SM5310B-2011		5/6/21 04:03	PAG	B



Ms. Sarah S Leung
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 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3171839 410-37198-1

Lab ID: **3171839005** Date Collected: 4/23/2021 09:50 Matrix: Water
 Sample ID: **Column Effluent-042321** Date Received: 4/26/2021 12:51

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	0.02	S5550B-10		5/24/21 10:15	MBS	A
Total Organic Carbon (TOC)	0.72	C	mg/L	0.50	0.18	SM5310B-2011		5/6/21 04:03	PAG	B



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ANALYTICAL RESULTS

Workorder: 3171839 410-37198-1

Lab ID: **3171839006** Date Collected: 4/23/2021 09:55 Matrix: Water
 Sample ID: **Column Influent-042321** Date Received: 4/26/2021 12:51

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	0.02	S5550B-10		5/24/21 10:15	MBS	A
Total Organic Carbon (TOC)	0.75	C	mg/L	0.50	0.18	SM5310B-2011		5/6/21 04:03	PAG	B



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ANALYTICAL RESULTS

Workorder: 3171839 410-37198-1

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3171839001	1	Column Effluent-041921	S5550B-10	Tannin and Lignin
The Tannin and Lignin analysis was analyzed outside of the 28 day holding time.				
3171839002	1	Column Influent-041921	S5550B-10	Tannin and Lignin
The Tannin and Lignin analysis was analyzed outside of the 28 day holding time.				
3171839003	1	Column Effluent-042121	S5550B-10	Tannin and Lignin
The Tannin and Lignin analysis was analyzed outside of the 28 day holding time.				
3171839004	1	Column Influent-042121	S5550B-10	Tannin and Lignin
The Tannin and Lignin analysis was analyzed outside of the 28 day holding time.				
3171839005	1	Column Effluent-042321	S5550B-10	Tannin and Lignin
The Tannin and Lignin analysis was analyzed outside of the 28 day holding time.				
3171839006	1	Column Influent-042321	S5550B-10	Tannin and Lignin
The Tannin and Lignin analysis was analyzed outside of the 28 day holding time.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3171839 410-37198-1

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3171839001	Column Effluent-041921	S5550B-10		
3171839001	Column Effluent-041921	SM5310B-2011		
3171839002	Column Influent-041921	S5550B-10		
3171839002	Column Influent-041921	SM5310B-2011		
3171839003	Column Effluent-042121	S5550B-10		
3171839003	Column Effluent-042121	SM5310B-2011		
3171839004	Column Influent-042121	S5550B-10		
3171839004	Column Influent-042121	SM5310B-2011		
3171839005	Column Effluent-042321	S5550B-10		
3171839005	Column Effluent-042321	SM5310B-2011		
3171839006	Column Influent-042321	S5550B-10		
3171839006	Column Influent-042321	SM5310B-2011		

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Chain of Custody Record



3171839

Client Information (Sub Contract Lab) Client Contact: <u>Cottman, Hannah L.</u> Shipping/Receiving: <u>Hannah.Cottman@eurofinsnet.co.uk</u> Company: <u>ALS Environmental</u>		Lab PM: <u>Cottman, Hannah L.</u> E-Mail: <u>Hannah.Cottman@eurofinsnet.co.uk</u> Accredited to: <u>State - Maryland</u>									
Address: <u>301 Fulling Mill Road,</u> City: <u>Middletown</u> State, Zip: <u>PA, 17057</u> Phone: _____ Email: _____		Due Date Requested: <u>5/14/2021</u> TAT Requested (days): _____									
Project Name: <u>Former Kop-Flex Facility Site</u> SOW#: _____		PO #: _____ WO #: _____									
Sample Identification - Client ID (Lab ID)		Analysis Requested									
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, H=hexane, O=oil, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Low Level TOC)/EPA 810C	SUB (Tannins and Light)/660B	Total Number of Containers	Special Instructions/Note:
Column Effluent-041921 (410-37198-1)	4/19/21	08:00 Eastern	Water	Water		X	X	X	X	4	Standard Report Format; EDD Required - .xls format
Column Influent-041921 (410-37198-2)	4/19/21	08:05 Eastern	Water	Water		X	X	X	X	4	Standard Report Format; EDD Required - .xls format
Column Effluent-042121 (410-37198-3)	4/21/21	08:10 Eastern	Water	Water		X	X	X	X	4	Standard Report Format; EDD Required - .xls format
Column Influent-042121 (410-37198-4)	4/21/21	08:15 Eastern	Water	Water		X	X	X	X	4	Standard Report Format; EDD Required - .xls format
Column Effluent-042321 (410-37198-5)	4/23/21	09:50 Eastern	Water	Water		X	X	X	X	4	Standard Report Format; EDD Required - .xls format
Column Influent-042321 (410-37198-6)	4/23/21	09:55 Eastern	Water	Water		X	X	X	X	4	Standard Report Format; EDD Required - .xls format
Note: Since laboratory accreditations are subject to change, Eurofins Lancaster Laboratories Env places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Lancaster Laboratories Env laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Lancaster Laboratories Env attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Lancaster Laboratories Env.											
Possible Hazard Identification Unconfirmed: _____ Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2 Date: _____ Time: _____ Method of Shipment: _____											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Received by: <u>Hannah Cottman</u> Date/Time: <u>4/26/21 12:12</u> Company: <u>ALS</u> Received by: <u>ALS</u> Date/Time: <u>4/26/2021 12:51</u> Company: <u>ALS</u> Received by: _____ Date/Time: _____ Company: _____ Cooler Temperature(s) °C and Other Remarks: _____											





301 Fulling Mill Road
Middletown, PA 17057
P: (717) 944-5541
F: (717) 944-1430

3171839

Eurofins Lancaster Laboratories
Environmental, LLC

on of Sample Receipt Form

Client: _____ Wor _____

Initials: AWB Date: 4/21/2021

- | | | | |
|--------------------------------------------------------------------------------------------------------------------------|------------------|------------|-----------|
| 1. Were airbills / tracking numbers present and recorded?..... | <u>NONE</u> | YES | NO |
| Tracking number: _____ | | | |
| 2. Are Custody Seals on shipping containers intact?..... | <u>NONE</u> | YES | NO |
| 3. Are Custody Seals on sample containers intact?..... | <u>NONE</u> | YES | NO |
| 4. Is there a COC (Chain-of-Custody) present?..... | | <u>YES</u> | NO |
| 5. Are the COC and bottle labels complete, legible and in agreement?..... | <u>See below</u> | YES | <u>NO</u> |
| 5a. Does the COC contain sample locations?..... | | <u>YES</u> | NO |
| 5b. Does the COC contain date and time of sample collection for all samples?..... | | <u>YES</u> | NO |
| 5c. Does the COC contain sample collectors name?..... | <u>Client</u> | YES | <u>NO</u> |
| 5d. Does the COC note the type(s) of preservation for all bottles?..... | <u>added</u> | YES | <u>NO</u> |
| 5e. Does the COC note the number of bottles submitted for each sample?..... | <u>added</u> | YES | <u>NO</u> |
| 5f. Does the COC note the type of sample, composite or grab?..... | <u>no CG</u> | YES | <u>NO</u> |
| 5g. Does the COC note the matrix of the sample(s)?..... | | <u>YES</u> | NO |
| 6. Are all aqueous samples requiring preservation preserved correctly? ¹ | N/A | YES | NO |
| 7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... | | YES | NO |
| 8. Are all samples within holding times for the requested analyses?..... | | YES | NO |
| 9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... | | <u>YES</u> | NO |
| 10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... | <u>N/A</u> | YES | NO |
| 11. Were the samples received on ice?..... | | <u>YES</u> | NO |
| 12. Were sample temperatures measured at 0.0-6.0°C..... | | <u>YES</u> | NO |
| 13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... | | YES | <u>NO</u> |
| 13a. Are the samples required for SDWA compliance reporting?..... | <u>N/A</u> | YES | NO |
| 13b. Did the client provide a SDWA PWS ID#?..... | N/A | YES | NO |
| 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... | N/A | YES | NO |
| 13d. Did the client provide the SDWA sample location ID/Description?..... | N/A | YES | NO |
| 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... | N/A | YES | NO |

Cooler #: 4/19/21 4/21/21 4/23/21 _____

Temperature (°C): 3 6 4 _____

Thermometer ID: 573 573 573 _____

Radiological (µCi): _____

COMMENTS (Required for all NO responses above and any sample non-conformance):

¹Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis

Login Sample Receipt Checklist

Client: WSP USA Corp.

Job Number: 410-37198-1

Login Number: 37198

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Rivera-Santa, Julissa

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-38011-1

Client Project/Site: Former Kop-Flex Facility Site

For:

WSP USA Corp.
Attn: Environmental Accounts Payable
13530 Dulles Technology Drive
Suite 300
Herndon, Virginia 20171

Attn: Eric Johnson



Authorized for release by:
5/24/2021 2:38:20 PM

Hannah Cottman, Operations Support Specialist
(717)556-7383

Hannah.Cottman@eurofinset.com

LINKS

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results through
TotalAccess

Have a Question?



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www.eurofinsus.com/Env

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Hannah Cottman
Operations Support Specialist
5/24/2021 2:38:20 PM



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Definitions/Glossary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Job ID: 410-38011-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-38011-1

Receipt

The samples were received on 4/30/2021 5:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

SUBCONTRACTING

The following analyses were subcontracted to ALS Environmental:

Low Level TOC
Tannins and Lignins

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Subcontract Lab non-Sister Lab

See attached subcontract report.

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Detection Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Client Sample ID: Column Effluent-042621

Lab Sample ID: 410-38011-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	89		4.0	1.7	ug/L	10		8260C SIM 14D	Total/NA
1,1,1-Trichloroethane	18		1.0	0.30	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	40		1.0	0.20	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	190		1.0	0.20	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	1.4		1.0	0.30	ug/L	1		8260C	Total/NA
Chloroethane	3.8		1.0	0.20	ug/L	1		8260C	Total/NA
Chloroform	0.22	J	1.0	0.20	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.3		1.0	0.20	ug/L	1		8260C	Total/NA
Methyl tertiary butyl ether	0.57	J	1.0	0.20	ug/L	1		8260C	Total/NA
Methylene Chloride	0.34	J	1.0	0.30	ug/L	1		8260C	Total/NA
Trichloroethene	0.91	J	1.0	0.20	ug/L	1		8260C	Total/NA
Vinyl chloride	0.35	J	1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: Column Influent-042621

Lab Sample ID: 410-38011-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	80		4.0	1.7	ug/L	10		8260C SIM 14D	Total/NA
1,1,1-Trichloroethane	17		1.0	0.30	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	40		1.0	0.20	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	190		1.0	0.20	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	1.4		1.0	0.30	ug/L	1		8260C	Total/NA
Chloroethane	3.8		1.0	0.20	ug/L	1		8260C	Total/NA
Chloroform	0.22	J	1.0	0.20	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.2		1.0	0.20	ug/L	1		8260C	Total/NA
Methyl tertiary butyl ether	0.55	J	1.0	0.20	ug/L	1		8260C	Total/NA
Methylene Chloride	0.33	J	1.0	0.30	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.22	J	1.0	0.20	ug/L	1		8260C	Total/NA
Vinyl chloride	0.38	J	1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: Column Effluent-042821

Lab Sample ID: 410-38011-3

No Detections.

Client Sample ID: Column Influent-042821

Lab Sample ID: 410-38011-4

No Detections.

Client Sample ID: Column Effluent-043021

Lab Sample ID: 410-38011-5

No Detections.

Client Sample ID: Column Influent-043021

Lab Sample ID: 410-38011-6

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 410-38011-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Client Sample ID: Column Effluent-042621

Lab Sample ID: 410-38011-1

Date Collected: 04/26/21 09:10

Matrix: Water

Date Received: 04/30/21 17:02

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	89		4.0	1.7	ug/L			05/10/21 18:11	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120					05/10/21 18:11	10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	18		1.0	0.30	ug/L			05/10/21 02:17	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
1,1-Dichloroethane	40		1.0	0.20	ug/L			05/10/21 02:17	1
1,1-Dichloroethene	190		1.0	0.20	ug/L			05/10/21 02:17	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			05/10/21 02:17	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			05/10/21 02:17	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			05/10/21 02:17	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/10/21 02:17	1
1,2-Dichloroethane	1.4		1.0	0.30	ug/L			05/10/21 02:17	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/10/21 02:17	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/10/21 02:17	1
2-Butanone	<0.30		10	0.30	ug/L			05/10/21 02:17	1
2-Hexanone	<0.30		10	0.30	ug/L			05/10/21 02:17	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			05/10/21 02:17	1
Acetone	<0.70		20	0.70	ug/L			05/10/21 02:17	1
Benzene	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			05/10/21 02:17	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
Bromoform	<1.0		4.0	1.0	ug/L			05/10/21 02:17	1
Bromomethane	<0.30		1.0	0.30	ug/L			05/10/21 02:17	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			05/10/21 02:17	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
Chloroethane	3.8		1.0	0.20	ug/L			05/10/21 02:17	1
Chloroform	0.22 J		1.0	0.20	ug/L			05/10/21 02:17	1
Chloromethane	<0.20	*+	1.0	0.20	ug/L			05/10/21 02:17	1
cis-1,2-Dichloroethene	1.3		1.0	0.20	ug/L			05/10/21 02:17	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
Cyclohexane	<1.0		5.0	1.0	ug/L			05/10/21 02:17	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			05/10/21 02:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			05/10/21 02:17	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			05/10/21 02:17	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			05/10/21 02:17	1
Methyl acetate	<0.30		5.0	0.30	ug/L			05/10/21 02:17	1
Methyl tertiary butyl ether	0.57 J		1.0	0.20	ug/L			05/10/21 02:17	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			05/10/21 02:17	1
Methylene Chloride	0.34 J		1.0	0.30	ug/L			05/10/21 02:17	1
Naphthalene	<1.0		5.0	1.0	ug/L			05/10/21 02:17	1

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Client Sample ID: Column Effluent-042621

Lab Sample ID: 410-38011-1

Date Collected: 04/26/21 09:10

Matrix: Water

Date Received: 04/30/21 17:02

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.40		1.0	0.40	ug/L			05/10/21 02:17	1
Styrene	<0.20		5.0	0.20	ug/L			05/10/21 02:17	1
Tetrachloroethene	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
Toluene	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
Trichloroethene	0.91	J	1.0	0.20	ug/L			05/10/21 02:17	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			05/10/21 02:17	1
Vinyl chloride	0.35	J	1.0	0.20	ug/L			05/10/21 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		05/10/21 02:17	1
4-Bromofluorobenzene (Surr)	98		80 - 120		05/10/21 02:17	1
Dibromofluoromethane (Surr)	101		80 - 120		05/10/21 02:17	1
Toluene-d8 (Surr)	97		80 - 120		05/10/21 02:17	1

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Client Sample ID: Column Influent-042621

Lab Sample ID: 410-38011-2

Date Collected: 04/26/21 09:20

Matrix: Water

Date Received: 04/30/21 17:02

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	80		4.0	1.7	ug/L			05/10/21 18:31	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120					05/10/21 18:31	10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	17		1.0	0.30	ug/L			05/10/21 02:37	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
1,1-Dichloroethane	40		1.0	0.20	ug/L			05/10/21 02:37	1
1,1-Dichloroethene	190		1.0	0.20	ug/L			05/10/21 02:37	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			05/10/21 02:37	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			05/10/21 02:37	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			05/10/21 02:37	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/10/21 02:37	1
1,2-Dichloroethane	1.4		1.0	0.30	ug/L			05/10/21 02:37	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/10/21 02:37	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/10/21 02:37	1
2-Butanone	<0.30		10	0.30	ug/L			05/10/21 02:37	1
2-Hexanone	<0.30		10	0.30	ug/L			05/10/21 02:37	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			05/10/21 02:37	1
Acetone	<0.70		20	0.70	ug/L			05/10/21 02:37	1
Benzene	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			05/10/21 02:37	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
Bromoform	<1.0		4.0	1.0	ug/L			05/10/21 02:37	1
Bromomethane	<0.30		1.0	0.30	ug/L			05/10/21 02:37	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			05/10/21 02:37	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
Chloroethane	3.8		1.0	0.20	ug/L			05/10/21 02:37	1
Chloroform	0.22	J	1.0	0.20	ug/L			05/10/21 02:37	1
Chloromethane	<0.20	*+	1.0	0.20	ug/L			05/10/21 02:37	1
cis-1,2-Dichloroethene	1.2		1.0	0.20	ug/L			05/10/21 02:37	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
Cyclohexane	<1.0		5.0	1.0	ug/L			05/10/21 02:37	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			05/10/21 02:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			05/10/21 02:37	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			05/10/21 02:37	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			05/10/21 02:37	1
Methyl acetate	<0.30		5.0	0.30	ug/L			05/10/21 02:37	1
Methyl tertiary butyl ether	0.55	J	1.0	0.20	ug/L			05/10/21 02:37	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			05/10/21 02:37	1
Methylene Chloride	0.33	J	1.0	0.30	ug/L			05/10/21 02:37	1
Naphthalene	<1.0		5.0	1.0	ug/L			05/10/21 02:37	1

Client Sample Results

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Client Sample ID: Column Influent-042621

Lab Sample ID: 410-38011-2

Date Collected: 04/26/21 09:20

Matrix: Water

Date Received: 04/30/21 17:02

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.40		1.0	0.40	ug/L			05/10/21 02:37	1
Styrene	<0.20		5.0	0.20	ug/L			05/10/21 02:37	1
Tetrachloroethene	0.22	J	1.0	0.20	ug/L			05/10/21 02:37	1
Toluene	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
Trichloroethene	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			05/10/21 02:37	1
Vinyl chloride	0.38	J	1.0	0.20	ug/L			05/10/21 02:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		05/10/21 02:37	1
4-Bromofluorobenzene (Surr)	96		80 - 120		05/10/21 02:37	1
Dibromofluoromethane (Surr)	102		80 - 120		05/10/21 02:37	1
Toluene-d8 (Surr)	99		80 - 120		05/10/21 02:37	1

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-38011-7

Date Collected: 04/26/21 00:00

Matrix: Water

Date Received: 04/30/21 17:02

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.17		0.40	0.17	ug/L			05/10/21 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120					05/10/21 17:30	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.30		1.0	0.30	ug/L			05/09/21 23:56	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
1,1-Dichloroethane	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
1,1-Dichloroethene	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			05/09/21 23:56	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			05/09/21 23:56	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			05/09/21 23:56	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/09/21 23:56	1
1,2-Dichloroethane	<0.30		1.0	0.30	ug/L			05/09/21 23:56	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/09/21 23:56	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/09/21 23:56	1
2-Butanone	<0.30		10	0.30	ug/L			05/09/21 23:56	1
2-Hexanone	<0.30		10	0.30	ug/L			05/09/21 23:56	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			05/09/21 23:56	1
Acetone	<0.70		20	0.70	ug/L			05/09/21 23:56	1
Benzene	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			05/09/21 23:56	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Bromoform	<1.0		4.0	1.0	ug/L			05/09/21 23:56	1
Bromomethane	<0.30		1.0	0.30	ug/L			05/09/21 23:56	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			05/09/21 23:56	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Chloroethane	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Chloroform	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Chloromethane	<0.20	*+	1.0	0.20	ug/L			05/09/21 23:56	1
cis-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Cyclohexane	<1.0		5.0	1.0	ug/L			05/09/21 23:56	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			05/09/21 23:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			05/09/21 23:56	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			05/09/21 23:56	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			05/09/21 23:56	1
Methyl acetate	<0.30		5.0	0.30	ug/L			05/09/21 23:56	1
Methyl tertiary butyl ether	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			05/09/21 23:56	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			05/09/21 23:56	1
Naphthalene	<1.0		5.0	1.0	ug/L			05/09/21 23:56	1

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-38011-7

Date Collected: 04/26/21 00:00

Matrix: Water

Date Received: 04/30/21 17:02

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.40		1.0	0.40	ug/L			05/09/21 23:56	1
Styrene	<0.20		5.0	0.20	ug/L			05/09/21 23:56	1
Tetrachloroethene	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Toluene	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Trichloroethene	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/09/21 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		05/09/21 23:56	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/09/21 23:56	1
Dibromofluoromethane (Surr)	103		80 - 120		05/09/21 23:56	1
Toluene-d8 (Surr)	99		80 - 120		05/09/21 23:56	1

Action Limit Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Client Sample ID: Column Effluent-042621

Lab Sample ID: 410-38011-1

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	18		ug/L	200	1.0	8260C	Total/NA
1,1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,1,1,2-Trichloroethane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,1-Dichloroethane	40		ug/L	90	1.0	8260C	Total/NA
1,1-Dichloroethene	190		ug/L	7	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	<0.30		ug/L	0.2	5.0	8260C	Total/NA
1,2-Dibromoethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,2-Dichlorobenzene	<0.20		ug/L	600	5.0	8260C	Total/NA
1,2-Dichloroethane	1.4		ug/L	5	1.0	8260C	Total/NA
1,2-Dichloropropane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,3-Dichlorobenzene	<0.20		ug/L	2	5.0	8260C	Total/NA
1,4-Dichlorobenzene	<0.20		ug/L	75	5.0	8260C	Total/NA
2-Butanone	<0.30		ug/L	700	10	8260C	Total/NA
4-Methyl-2-pentanone	<0.50		ug/L	630	10	8260C	Total/NA
Acetone	<0.70		ug/L	550	20	8260C	Total/NA
Benzene	<0.20		ug/L	5	1.0	8260C	Total/NA
Bromodichloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Bromoform	<1.0		ug/L	80	4.0	8260C	Total/NA
Bromomethane	<0.30		ug/L	0.85	1.0	8260C	Total/NA
Carbon disulfide	<0.20		ug/L	100	5.0	8260C	Total/NA
Carbon tetrachloride	<0.20		ug/L	5	1.0	8260C	Total/NA
Chlorobenzene	<0.20		ug/L	100	1.0	8260C	Total/NA
Chloroethane	3.8		ug/L	3.6	1.0	8260C	Total/NA
Chloroform	0.22	J	ug/L	80	1.0	8260C	Total/NA
Chloromethane	<0.20	*+	ug/L	190	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	1.3		ug/L	70	1.0	8260C	Total/NA
cis-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Dibromochloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Ethylbenzene	<0.40		ug/L	700	1.0	8260C	Total/NA
Isopropylbenzene	<0.20		ug/L	66	5.0	8260C	Total/NA
Methyl tertiary butyl ether	0.57	J	ug/L	20	1.0	8260C	Total/NA
Naphthalene	<1.0		ug/L	0.65	5.0	8260C	Total/NA
o-Xylene	<0.40		ug/L	10000	1.0	8260C	Total/NA
Styrene	<0.20		ug/L	100	5.0	8260C	Total/NA
Tetrachloroethene	<0.20		ug/L	5	1.0	8260C	Total/NA
Toluene	<0.20		ug/L	1000	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	<0.20		ug/L	100	1.0	8260C	Total/NA
trans-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Trichloroethene	0.91	J	ug/L	5	1.0	8260C	Total/NA
Vinyl chloride	0.35	J	ug/L	2	1.0	8260C	Total/NA

Client Sample ID: Column Influent-042621

Lab Sample ID: 410-38011-2

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	17		ug/L	200	1.0	8260C	Total/NA
1,1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,1,1,2-Trichloroethane	<0.20		ug/L	5	1.0	8260C	Total/NA

Eurofins Lancaster Laboratories Env, LLC

Action Limit Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Client Sample ID: Column Influent-042621 (Continued)

Lab Sample ID: 410-38011-2

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1-Dichloroethane	40		ug/L	90	1.0	8260C	Total/NA
1,1-Dichloroethene	190		ug/L	7	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	<0.30		ug/L	0.2	5.0	8260C	Total/NA
1,2-Dibromoethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,2-Dichlorobenzene	<0.20		ug/L	600	5.0	8260C	Total/NA
1,2-Dichloroethane	1.4		ug/L	5	1.0	8260C	Total/NA
1,2-Dichloropropane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,3-Dichlorobenzene	<0.20		ug/L	2	5.0	8260C	Total/NA
1,4-Dichlorobenzene	<0.20		ug/L	75	5.0	8260C	Total/NA
2-Butanone	<0.30		ug/L	700	10	8260C	Total/NA
4-Methyl-2-pentanone	<0.50		ug/L	630	10	8260C	Total/NA
Acetone	<0.70		ug/L	550	20	8260C	Total/NA
Benzene	<0.20		ug/L	5	1.0	8260C	Total/NA
Bromodichloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Bromoform	<1.0		ug/L	80	4.0	8260C	Total/NA
Bromomethane	<0.30		ug/L	0.85	1.0	8260C	Total/NA
Carbon disulfide	<0.20		ug/L	100	5.0	8260C	Total/NA
Carbon tetrachloride	<0.20		ug/L	5	1.0	8260C	Total/NA
Chlorobenzene	<0.20		ug/L	100	1.0	8260C	Total/NA
Chloroethane	3.8		ug/L	3.6	1.0	8260C	Total/NA
Chloroform	0.22	J	ug/L	80	1.0	8260C	Total/NA
Chloromethane	<0.20	*+	ug/L	190	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	1.2		ug/L	70	1.0	8260C	Total/NA
cis-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Dibromochloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Ethylbenzene	<0.40		ug/L	700	1.0	8260C	Total/NA
Isopropylbenzene	<0.20		ug/L	66	5.0	8260C	Total/NA
Methyl tertiary butyl ether	0.55	J	ug/L	20	1.0	8260C	Total/NA
Naphthalene	<1.0		ug/L	0.65	5.0	8260C	Total/NA
o-Xylene	<0.40		ug/L	10000	1.0	8260C	Total/NA
Styrene	<0.20		ug/L	100	5.0	8260C	Total/NA
Tetrachloroethene	0.22	J	ug/L	5	1.0	8260C	Total/NA
Toluene	<0.20		ug/L	1000	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	<0.20		ug/L	100	1.0	8260C	Total/NA
trans-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Trichloroethene	<0.20		ug/L	5	1.0	8260C	Total/NA
Vinyl chloride	0.38	J	ug/L	2	1.0	8260C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-38011-7

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	<0.30		ug/L	200	1.0	8260C	Total/NA
1,1,1,2-Tetrachloroethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,1,2-Trichloroethane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,1-Dichloroethane	<0.20		ug/L	90	1.0	8260C	Total/NA
1,1-Dichloroethene	<0.20		ug/L	7	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	<0.30		ug/L	0.2	5.0	8260C	Total/NA

Eurofins Lancaster Laboratories Env, LLC

Action Limit Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Client Sample ID: Trip Blank (Continued)

Lab Sample ID: 410-38011-7

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,2-Dibromoethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,2-Dichlorobenzene	<0.20		ug/L	600	5.0	8260C	Total/NA
1,2-Dichloroethane	<0.30		ug/L	5	1.0	8260C	Total/NA
1,2-Dichloropropane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,3-Dichlorobenzene	<0.20		ug/L	2	5.0	8260C	Total/NA
1,4-Dichlorobenzene	<0.20		ug/L	75	5.0	8260C	Total/NA
2-Butanone	<0.30		ug/L	700	10	8260C	Total/NA
4-Methyl-2-pentanone	<0.50		ug/L	630	10	8260C	Total/NA
Acetone	<0.70		ug/L	550	20	8260C	Total/NA
Benzene	<0.20		ug/L	5	1.0	8260C	Total/NA
Bromodichloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Bromoform	<1.0		ug/L	80	4.0	8260C	Total/NA
Bromomethane	<0.30		ug/L	0.85	1.0	8260C	Total/NA
Carbon disulfide	<0.20		ug/L	100	5.0	8260C	Total/NA
Carbon tetrachloride	<0.20		ug/L	5	1.0	8260C	Total/NA
Chlorobenzene	<0.20		ug/L	100	1.0	8260C	Total/NA
Chloroethane	<0.20		ug/L	3.6	1.0	8260C	Total/NA
Chloroform	<0.20		ug/L	80	1.0	8260C	Total/NA
Chloromethane	<0.20	*+	ug/L	190	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	<0.20		ug/L	70	1.0	8260C	Total/NA
cis-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Dibromochloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Ethylbenzene	<0.40		ug/L	700	1.0	8260C	Total/NA
Isopropylbenzene	<0.20		ug/L	66	5.0	8260C	Total/NA
Methyl tertiary butyl ether	<0.20		ug/L	20	1.0	8260C	Total/NA
Naphthalene	<1.0		ug/L	0.65	5.0	8260C	Total/NA
o-Xylene	<0.40		ug/L	10000	1.0	8260C	Total/NA
Styrene	<0.20		ug/L	100	5.0	8260C	Total/NA
Tetrachloroethene	<0.20		ug/L	5	1.0	8260C	Total/NA
Toluene	<0.20		ug/L	1000	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	<0.20		ug/L	100	1.0	8260C	Total/NA
trans-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Trichloroethene	<0.20		ug/L	5	1.0	8260C	Total/NA
Vinyl chloride	<0.20		ug/L	2	1.0	8260C	Total/NA

Surrogate Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
410-38011-1	Column Effluent-042621	104	98	101	97
410-38011-2	Column Influent-042621	106	96	102	99
410-38011-7	Trip Blank	106	99	103	99
LCS 410-124185/4	Lab Control Sample	103	98	103	99
MB 410-124185/6	Method Blank	103	98	103	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		TOL (80-120)
410-38011-1	Column Effluent-042621	100
410-38011-2	Column Influent-042621	101
410-38011-7	Trip Blank	100
LCS 410-124390/1013	Lab Control Sample	100
LCSD 410-124390/14	Lab Control Sample Dup	100
MB 410-124390/16	Method Blank	100

Surrogate Legend

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-124185/6

Matrix: Water

Analysis Batch: 124185

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.30		1.0	0.30	ug/L			05/09/21 22:54	1
1,1,1,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
1,1-Dichloroethane	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
1,1-Dichloroethene	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			05/09/21 22:54	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			05/09/21 22:54	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			05/09/21 22:54	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/09/21 22:54	1
1,2-Dichloroethane	<0.30		1.0	0.30	ug/L			05/09/21 22:54	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/09/21 22:54	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/09/21 22:54	1
2-Butanone	<0.30		10	0.30	ug/L			05/09/21 22:54	1
2-Hexanone	<0.30		10	0.30	ug/L			05/09/21 22:54	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			05/09/21 22:54	1
Acetone	<0.70		20	0.70	ug/L			05/09/21 22:54	1
Benzene	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			05/09/21 22:54	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Bromoform	<1.0		4.0	1.0	ug/L			05/09/21 22:54	1
Bromomethane	<0.30		1.0	0.30	ug/L			05/09/21 22:54	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			05/09/21 22:54	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Chloroethane	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Chloroform	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Chloromethane	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
cis-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Cyclohexane	<1.0		5.0	1.0	ug/L			05/09/21 22:54	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			05/09/21 22:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			05/09/21 22:54	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			05/09/21 22:54	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			05/09/21 22:54	1
Methyl acetate	<0.30		5.0	0.30	ug/L			05/09/21 22:54	1
Methyl tertiary butyl ether	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			05/09/21 22:54	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			05/09/21 22:54	1
Naphthalene	<1.0		5.0	1.0	ug/L			05/09/21 22:54	1
o-Xylene	<0.40		1.0	0.40	ug/L			05/09/21 22:54	1
Styrene	<0.20		5.0	0.20	ug/L			05/09/21 22:54	1
Tetrachloroethene	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Toluene	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-124185/6

Matrix: Water

Analysis Batch: 124185

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Trichloroethene	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/09/21 22:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		05/09/21 22:54	1
4-Bromofluorobenzene (Surr)	98		80 - 120		05/09/21 22:54	1
Dibromofluoromethane (Surr)	103		80 - 120		05/09/21 22:54	1
Toluene-d8 (Surr)	99		80 - 120		05/09/21 22:54	1

Lab Sample ID: LCS 410-124185/4

Matrix: Water

Analysis Batch: 124185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	67 - 126
1,1,2,2-Tetrachloroethane	20.0	20.0		ug/L		100	72 - 120
1,1,2-Trichloroethane	20.0	19.5		ug/L		98	80 - 120
1,1-Dichloroethane	20.0	19.4		ug/L		97	80 - 120
1,1-Dichloroethene	20.0	19.9		ug/L		99	80 - 131
1,2,3-Trichlorobenzene	20.0	18.7		ug/L		94	66 - 120
1,2,4-Trichlorobenzene	20.0	18.6		ug/L		93	63 - 120
1,2-Dibromo-3-Chloropropane	20.0	20.3		ug/L		101	47 - 131
1,2-Dibromoethane	20.0	19.4		ug/L		97	77 - 120
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120
1,2-Dichloroethane	20.0	19.9		ug/L		100	73 - 124
1,2-Dichloropropane	20.0	19.7		ug/L		98	80 - 120
1,3-Dichlorobenzene	20.0	19.3		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	19.5		ug/L		98	80 - 120
2-Butanone	150	156		ug/L		104	59 - 135
2-Hexanone	100	97.4		ug/L		97	56 - 135
4-Methyl-2-pentanone	100	94.4		ug/L		94	62 - 133
Acetone	150	140		ug/L		93	54 - 157
Benzene	20.0	19.2		ug/L		96	80 - 120
Bromochloromethane	20.0	20.4		ug/L		102	80 - 120
Bromodichloromethane	20.0	19.6		ug/L		98	71 - 120
Bromoform	20.0	20.2		ug/L		101	51 - 120
Bromomethane	20.0	20.4		ug/L		102	53 - 128
Carbon disulfide	20.0	19.2		ug/L		96	65 - 128
Carbon tetrachloride	20.0	20.3		ug/L		101	64 - 134
Chlorobenzene	20.0	19.5		ug/L		97	80 - 120
Chloroethane	20.0	19.6		ug/L		98	55 - 123
Chloroform	20.0	19.7		ug/L		98	80 - 120
Chloromethane	20.0	25.2	*+	ug/L		126	56 - 121
cis-1,2-Dichloroethene	20.0	19.6		ug/L		98	80 - 125
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	75 - 120
Cyclohexane	20.0	19.8		ug/L		99	68 - 126

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-124185/4

Matrix: Water

Analysis Batch: 124185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	20.0	19.6		ug/L		98	71 - 120
Dichlorodifluoromethane	20.0	24.2		ug/L		121	41 - 127
Ethylbenzene	20.0	19.2		ug/L		96	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.4		ug/L		107	73 - 139
Isopropylbenzene	20.0	19.1		ug/L		95	80 - 120
m&p-Xylene	40.0	38.2		ug/L		96	80 - 120
Methyl acetate	20.0	25.6		ug/L		128	54 - 136
Methyl tertiary butyl ether	20.0	19.8		ug/L		99	69 - 122
Methylcyclohexane	20.0	20.3		ug/L		101	67 - 121
Methylene Chloride	20.0	19.1		ug/L		96	80 - 120
Naphthalene	20.0	19.1		ug/L		96	53 - 124
o-Xylene	20.0	19.4		ug/L		97	80 - 120
Styrene	20.0	18.9		ug/L		94	80 - 120
Tetrachloroethene	20.0	16.7		ug/L		84	80 - 120
Toluene	20.0	19.3		ug/L		96	80 - 120
trans-1,2-Dichloroethene	20.0	19.5		ug/L		98	80 - 126
trans-1,3-Dichloropropene	20.0	19.8		ug/L		99	67 - 120
Trichloroethene	20.0	19.6		ug/L		98	80 - 120
Trichlorofluoromethane	20.0	21.3		ug/L		107	55 - 135
Vinyl chloride	20.0	21.5		ug/L		107	56 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-124390/16

Matrix: Water

Analysis Batch: 124390

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.17		0.40	0.17	ug/L			05/10/21 17:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		05/10/21 17:10	1

Lab Sample ID: LCS 410-124390/1013

Matrix: Water

Analysis Batch: 124390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	4.81	4.41		ug/L		92	74 - 133

QC Sample Results

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-124390/1013
Matrix: Water
Analysis Batch: 124390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

	LCS	LCS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 410-124390/14
Matrix: Water
Analysis Batch: 124390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

<i>Analyte</i>	<i>Spike Added</i>	LCSD	LCSD	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	%Rec.	<i>RPD</i>	RPD
		<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>		<i>Limit</i>
1,4-Dioxane	4.81	4.72		ug/L		98	74 - 133	7	30

	LCSD	LCSD	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Toluene-d8 (Surr)	100		80 - 120

QC Association Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

GC/MS VOA

Analysis Batch: 124185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-38011-1	Column Effluent-042621	Total/NA	Water	8260C	
410-38011-2	Column Influent-042621	Total/NA	Water	8260C	
410-38011-7	Trip Blank	Total/NA	Water	8260C	
MB 410-124185/6	Method Blank	Total/NA	Water	8260C	
LCS 410-124185/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 124390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-38011-1	Column Effluent-042621	Total/NA	Water	8260C SIM 14D	
410-38011-2	Column Influent-042621	Total/NA	Water	8260C SIM 14D	
410-38011-7	Trip Blank	Total/NA	Water	8260C SIM 14D	
MB 410-124390/16	Method Blank	Total/NA	Water	8260C SIM 14D	
LCS 410-124390/1013	Lab Control Sample	Total/NA	Water	8260C SIM 14D	
LCSD 410-124390/14	Lab Control Sample Dup	Total/NA	Water	8260C SIM 14D	

Lab Chronicle

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Client Sample ID: Column Effluent-042621

Lab Sample ID: 410-38011-1

Date Collected: 04/26/21 09:10

Matrix: Water

Date Received: 04/30/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	124185	05/10/21 02:17	USEJ	ELLE
Total/NA	Analysis	8260C SIM 14D		10	124390	05/10/21 18:11	USEJ	ELLE

Client Sample ID: Column Influent-042621

Lab Sample ID: 410-38011-2

Date Collected: 04/26/21 09:20

Matrix: Water

Date Received: 04/30/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	124185	05/10/21 02:37	USEJ	ELLE
Total/NA	Analysis	8260C SIM 14D		10	124390	05/10/21 18:31	USEJ	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-38011-7

Date Collected: 04/26/21 00:00

Matrix: Water

Date Received: 04/30/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	124185	05/09/21 23:56	USEJ	ELLE
Total/NA	Analysis	8260C SIM 14D		1	124390	05/10/21 17:30	USEJ	ELLE

Laboratory References:

ALS MTown = ALS Environmental - Middletown, PA, 301 Fulling Mill Road, Middletown, PA 17057

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,4-Dichlorobenzene
8260C		Water	2-Butanone
8260C		Water	2-Hexanone
8260C		Water	4-Methyl-2-pentanone
8260C		Water	Acetone
8260C		Water	Benzene
8260C		Water	Bromochloromethane
8260C		Water	Bromodichloromethane
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Cyclohexane
8260C		Water	Dibromochloromethane
8260C		Water	Dichlorodifluoromethane
8260C		Water	Ethylbenzene
8260C		Water	Isopropylbenzene
8260C		Water	m&p-Xylene
8260C		Water	Methyl acetate
8260C		Water	Methyl tertiary butyl ether
8260C		Water	Methylcyclohexane
8260C		Water	Methylene Chloride
8260C		Water	Naphthalene
8260C		Water	o-Xylene
8260C		Water	Styrene

Accreditation/Certification Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	06-30-22
8260C	Water	Tetrachloroethene	
8260C	Water	Toluene	
8260C	Water	trans-1,2-Dichloroethene	
8260C	Water	trans-1,3-Dichloropropene	
8260C	Water	Trichloroethene	
8260C	Water	Trichlorofluoromethane	
8260C	Water	Vinyl chloride	
8260C SIM 14D	Water	1,4-Dioxane	

Method Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C SIM 14D	Volatile Organic Compounds (GC/MS)	SW846	ELLE
5310C	SM 5310C TOC	SM18	ALS MTown
5550B	SM 5550BTannins and Lignins	SM18	ALS MTown
5030C	Purge and Trap	SW846	ELLE

Protocol References:

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ALS MTown = ALS Environmental - Middletown, PA, 301 Fulling Mill Road, Middletown, PA 17057

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Sample Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-38011-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-38011-1	Column Effluent-042621	Water	04/26/21 09:10	04/30/21 17:02	
410-38011-2	Column Influent-042621	Water	04/26/21 09:20	04/30/21 17:02	
410-38011-3	Column Effluent-042821	Water	04/28/21 11:00	04/30/21 17:02	
410-38011-4	Column Influent-042821	Water	04/28/21 11:05	04/30/21 17:02	
410-38011-5	Column Effluent-043021	Water	04/30/21 11:00	04/30/21 17:02	
410-38011-6	Column Influent-043021	Water	04/30/21 11:05	04/30/21 17:02	
410-38011-7	Trip Blank	Water	04/26/21 00:00	04/30/21 17:02	

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May 24, 2021

ENV Subcontracting
Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Certificate of Analysis

Project Name: 2020-WET CHEM PRICING	Workorder: 3173098
Purchase Order:	Workorder ID: 410-38011-1

Dear ENV Subcontracting:

Enclosed are the analytical results for samples received by the laboratory on Monday, May 3, 2021.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

Ms. Sarah S Leung
Project Coordinator

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

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301 Fulling Mill Road - Middletown, PA 17057 - Phone: 717-944-5541 - Fax: 717-944-1430 - www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

SAMPLE SUMMARY

Workorder: 3173098 410-38011-1

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3173098001	Column Effluent (410-38011-1)	Water	4/26/2021 09:10	5/3/2021 10:23	Collected by Client
3173098002	Column Effluent (410-38011-2)	Water	4/26/2021 09:20	5/3/2021 10:23	Collected by Client
3173098003	Column Effluent (410-38011-3)	Water	4/28/2021 11:00	5/3/2021 10:23	Collected by Client
3173098004	Column Effluent (410-38011-4)	Water	4/28/2021 11:05	5/3/2021 10:23	Collected by Client
3173098005	Column Effluent (410-38011-5)	Water	4/30/2021 11:00	5/3/2021 10:23	Collected by Client
3173098006	Column Effluent (410-38011-6)	Water	4/30/2021 11:05	5/3/2021 10:23	Collected by Client

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SAMPLE SUMMARY

Workorder: 3173098 410-38011-1

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

PROJECT SUMMARY

Workorder: 3173098 410-38011-1

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

ALS Environmental Laboratory Locations Across North America

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 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3173098 410-38011-1

Lab ID: **3173098001** Date Collected: 4/26/2021 09:10 Matrix: Water
 Sample ID: **Column Effluent (410-38011-1)** Date Received: 5/3/2021 10:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	0.02	S5550B-10		5/24/21 10:15	MBS	A
Total Organic Carbon (TOC)	0.96	C	mg/L	0.50	0.18	SM5310B-2011		5/7/21 06:58	PAG	B



Ms. Sarah S Leung
 Project Coordinator

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301 Fulling Mill Road - Middletown, PA 17057 - Phone: 717-944-5541 - Fax: 717-944-1430 - www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3173098 410-38011-1

Lab ID: **3173098002** Date Collected: 4/26/2021 09:20 Matrix: Water
 Sample ID: **Column Effluent (410-38011-2)** Date Received: 5/3/2021 10:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	0.02	S5550B-10		5/24/21 10:15	MBS	A
Total Organic Carbon (TOC)	0.94	C	mg/L	0.50	0.18	SM5310B-2011		5/7/21 06:58	PAG	B



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ANALYTICAL RESULTS

Workorder: 3173098 410-38011-1

Lab ID: **3173098003** Date Collected: 4/28/2021 11:00 Matrix: Water
 Sample ID: **Column Effluent (410-38011-3)** Date Received: 5/3/2021 10:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C,1	mg/L	0.1	0.02	S5550B-10		5/24/21 10:15	MBS	A
Total Organic Carbon (TOC)	1.3	C	mg/L	0.50	0.18	SM5310B-2011		5/7/21 06:58	PAG	B



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ANALYTICAL RESULTS

Workorder: 3173098 410-38011-1

Lab ID: **3173098004** Date Collected: 4/28/2021 11:05 Matrix: Water
 Sample ID: **Column Effluent (410-38011-4)** Date Received: 5/3/2021 10:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C	mg/L	0.1	0.02	S5550B-10		5/24/21 10:15	MBS	A
Total Organic Carbon (TOC)	0.74	C	mg/L	0.50	0.18	SM5310B-2011		5/7/21 06:58	PAG	B



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ANALYTICAL RESULTS

Workorder: 3173098 410-38011-1

Lab ID: **3173098005** Date Collected: 4/30/2021 11:00 Matrix: Water
 Sample ID: **Column Effluent (410-38011-5)** Date Received: 5/3/2021 10:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C	mg/L	0.1	0.02	S5550B-10		5/24/21 12:20	MBS	A
Total Organic Carbon (TOC)	0.77	C	mg/L	0.50	0.18	SM5310B-2011		5/7/21 06:58	PAG	B



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ANALYTICAL RESULTS

Workorder: 3173098 410-38011-1

Lab ID: **3173098006** Date Collected: 4/30/2021 11:05 Matrix: Water
 Sample ID: **Column Effluent (410-38011-6)** Date Received: 5/3/2021 10:23

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Tannin and Lignin	ND	C	mg/L	0.1	0.02	S5550B-10		5/24/21 12:20	MBS	A
Total Organic Carbon (TOC)	0.76	C	mg/L	0.50	0.18	SM5310B-2011		5/7/21 06:58	PAG	B



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 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3173098 410-38011-1

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3173098001	1	Column Effluent (410-38011-1)	S5550B-10	Tannin and Lignin
3173098002	1	Column Effluent (410-38011-2)	S5550B-10	Tannin and Lignin
3173098003	1	Column Effluent (410-38011-3)	S5550B-10	Tannin and Lignin

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3173098 410-38011-1

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3173098001	Column Effluent (410-38011-1)	S5550B-10		
3173098001	Column Effluent (410-38011-1)	SM5310B-2011		
3173098002	Column Effluent (410-38011-2)	S5550B-10		
3173098002	Column Effluent (410-38011-2)	SM5310B-2011		
3173098003	Column Effluent (410-38011-3)	S5550B-10		
3173098003	Column Effluent (410-38011-3)	SM5310B-2011		
3173098004	Column Effluent (410-38011-4)	S5550B-10		
3173098004	Column Effluent (410-38011-4)	SM5310B-2011		
3173098005	Column Effluent (410-38011-5)	S5550B-10		
3173098005	Column Effluent (410-38011-5)	SM5310B-2011		
3173098006	Column Effluent (410-38011-6)	S5550B-10		
3173098006	Column Effluent (410-38011-6)	SM5310B-2011		

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Chain of Custody Record

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: ALS Environmental Address: 301 Fulling Mill Road, Middletown, PA, 17057 Phone: _____ Email: _____ Project Name: Former Kop-Flex Facility Site Site: _____		Lab PM: Cottman, Hannah L E-Mail: Hannah.Cottman@eurofinset.com State - Maryland							
No: 661431.1 Page 1 of 1 Job #: 410-38011-1		Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexane N - None O - As2O2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)							
Due Date Requested: 5/21/2021 TAT Requested (days): _____		Analysis Requested: _____							
Accreditation Required (See note): State - Maryland		Special Instructions/Note: _____							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swab, Overcoat, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Low Level TOC/ EPA 810C)	SUB (Fannings and Lignins) / 6550B	Total Number of Containers
Column Effluent-042621 (410-38011-1)	4/26/21	09:10 Eastern	Water	Water	X	X	X	X	4
Column Influent-042621 (410-38011-2)	4/26/21	09:20 Eastern	Water	Water	X	X	X	X	4
Column Effluent-042821 (410-38011-3)	4/28/21	11:00 Eastern	Water	Water	X	X	X	X	4
Column Influent-042821 (410-38011-4)	4/28/21	11:05 Eastern	Water	Water	X	X	X	X	4
Column Effluent-043021 (410-38011-5)	4/30/21	11:00 Eastern	Water	Water	X	X	X	X	4
Column Influent-043021 (410-38011-6)	4/30/21	11:05 Eastern	Water	Water	X	X	X	X	4
Note: Since laboratory accreditations are subject to change, Eurofins Lancaster Laboratories Env places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Lancaster Laboratories Env laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Lancaster Laboratories Env attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Lancaster Laboratories Env.									
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2 Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date: 4/30/21 22:47 Relinquished by: _____ Date: 5/21/21 10:23 Relinquished by: _____ Date: _____									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____ Method of Shipment: _____									
Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No									



20524



301 Fulling Mill Road
 Middletown, PA 17057
 P: (717) 944-5541
 F: (717) 944-1430

Condition of Sample Receipt Form

3173098

Client: _____ Work Order # Eurofins Lancaster Laboratories Environmental, LLC s: _____ Date: WS34

- | | | | |
|--------------------------------------------------------------------------------------------------------------------------|------|-----|----|
| 1. Were airbills / tracking numbers present and recorded?..... | NONE | YES | NO |
| Tracking number: _____ | | | |
| 2. Are Custody Seals on shipping containers intact?..... | NONE | YES | NO |
| 3. Are Custody Seals on sample containers intact?..... | NONE | YES | NO |
| 4. Is there a COC (Chain-of-Custody) present?..... | NONE | YES | NO |
| 5. Are the COC and bottle labels complete, legible and in agreement?..... | | YES | NO |
| 5a. Does the COC contain sample locations?..... | | YES | NO |
| 5b. Does the COC contain date and time of sample collection for all samples?..... | | YES | NO |
| 5c. Does the COC contain sample collectors name?..... | N/A | YES | NO |
| 5d. Does the COC note the type(s) of preservation for all bottles?..... | | YES | NO |
| 5e. Does the COC note the number of bottles submitted for each sample?..... | | YES | NO |
| 5f. Does the COC note the type of sample, composite or grab?..... | N/A | YES | NO |
| 5g. Does the COC note the matrix of the sample(s)?..... | | YES | NO |
| 6. Are all aqueous samples requiring preservation preserved correctly? ¹ | N/A | YES | NO |
| 7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... | | YES | NO |
| 8. Are all samples within holding times for the requested analyses?..... | | YES | NO |
| 9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... | | YES | NO |
| 10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... | N/A | YES | NO |
| 11. Were the samples received on ice?..... | | YES | NO |
| 12. Were sample temperatures measured at 0.0-6.0°C..... | | YES | NO |
| 13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... | | YES | NO |
| 13a. Are the samples required for SDWA compliance reporting?..... | N/A | YES | NO |
| 13b. Did the client provide a SDWA PWS ID#?..... | N/A | YES | NO |
| 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... | N/A | YES | NO |
| 13d. Did the client provide the SDWA sample location ID/Description?..... | N/A | YES | NO |
| 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... | N/A | YES | NO |

Cooler #: _____

Temperature (°C): 2 _____

Thermometer ID: 574 _____

Radiological (µCi): _____

COMMENTS (Required for all NO responses above and any sample non-conformance):



Chain of Custody Record

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Client 410-38011 Chain of Custody	Sampler Dave Seaman	Lab PM Cottman, Hannah L	Carrier Tracking No(s)	COC No 410-18548-3588 1
Client Contact Eric Johnson	Phone 410-299-3125	E-Mail Hannah.Cottman@eurofinset.com	State of Origin Maryland	Page Page 1 of 1

Company WSP USA Corp	PWSID NA	Analysis Requested			Job #						
Address	Due Date Requested:	<table border="1"> <tr><td>Field Filled Sample (Yes or No)</td></tr> <tr><td>Perform in SIMSD (Yes or No)</td></tr> <tr><td>624.1_PREC. 8260C. 8260C_SIM_14DX</td></tr> <tr><td>6310C - Low Level TOC</td></tr> <tr><td>6650B - Tannins and Lignin</td></tr> </table>			Field Filled Sample (Yes or No)	Perform in SIMSD (Yes or No)	624.1_PREC. 8260C. 8260C_SIM_14DX	6310C - Low Level TOC	6650B - Tannins and Lignin	Total Number of Containers	Preservation Codes:
Field Filled Sample (Yes or No)											
Perform in SIMSD (Yes or No)											
624.1_PREC. 8260C. 8260C_SIM_14DX											
6310C - Low Level TOC											
6650B - Tannins and Lignin											
City Herndon	TAT Requested (days): Standard	Other:									
State, Zip VA, 20171	Compliance Project: Δ Yes Δ No	A - HCL	M - Hexane								
Phone: 703-318-3936(Tel)	PO #: 31401545 010	B - NaOH	N - None								
Email: eric.johnson@wsp.com	WO #:	C - Zn Acetate	O - AsNaO2								
Project Name Former Kop-Flex Facility Site	Project #: 41001602	D - Nitric Acid	P - Na2O4S								
Site	SSOW#:	E - NaHSO4	Q - Na2SO3								
		F - MeOH	R - Na2S2O3								
		G - Amchlor	S - H2SO4								
		H - Ascorbic Acid	T - TSP Dodecahydrate								
		I - Ice	U - Acetone								
		J - DI Water	V - MCAA								
		K - EDTA	W - pH 4-5								
		L - EDA	Z - other (specify)								

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, B=solid, O=water/oil, BT=Tissue, A=Air)	Preservation Code	Field Filled Sample (Yes or No)	Perform in SIMSD (Yes or No)	624.1_PREC. 8260C. 8260C_SIM_14DX	6310C - Low Level TOC	6650B - Tannins and Lignin	Total Number of Containers	Special Instructions/Note:
Column Effluent-042621	4-26-21	0910	G	W		X	X	X				
Column Influent-042621	4-26-21	0920	G	W		X	X	X				
Column Effluent-042821	4-28-21	1100	G	W				X	X			
Column Influent - 042821	4-28-21	1105	G	W				X	X			
Column Effluent-043021	4/30/21	1100	G	W				X	X			
Column Influent-043021	4/30/21	1105	G	W				X	X			

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Deliverable Requested: I, II, III, IV, Other (specify) _____ Special Instructions/QC Requirements _____

Empty Kit Relinquished by	Date	Time	Method of Shipment
Relinquished by <i>[Signature]</i> S+S Tech	Date/Time 4/30/21 11:45	Company S+S Tech	Received by <i>[Signature]</i> Date/Time 4/30/21 11:45
Relinquished by <i>[Signature]</i>	Date/Time 4/30/21 14:02	Company	Received by <i>[Signature]</i> Date/Time
Relinquished by _____	Date/Time _____	Company _____	Received by <i>[Signature]</i> Date/Time 4/30/21 17:02
Custody Seals Intact Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks 1.1	

YAD

Login Sample Receipt Checklist

Client: WSP USA Corp.

Job Number: 410-38011-1

Login Number: 38011

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Phillips, Ann-Marie E

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-39015-1

Client Project/Site: Former Kop-Flex Facility Site
Revision: 1

For:

WSP USA Corp.
Attn: Environmental Accounts Payable
13530 Dulles Technology Drive
Suite 300
Herndon, Virginia 20171

Attn: Eric Johnson



Authorized for release by:
5/24/2021 6:05:17 PM

Hannah Cottman, Operations Support Specialist
(717)556-7383
Hannah.Cottman@eurofinset.com

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results through
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Results relate only to the items tested and the sample(s) as received by the laboratory.



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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A handwritten signature in black ink, appearing to read "Hannah L. Cottman". The signature is written in a cursive style.

Hannah Cottman
Operations Support Specialist
5/24/2021 6:05:17 PM



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Definitions/Glossary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Job ID: 410-39015-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-39015-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 5/12/2021. The report (revision 1) is being revised due to: Subcontract data was not included in the original report.

Receipt

The samples were received on 5/8/2021 5:19 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9° C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

SUBCONTRACTING

The following analyses were subcontracted to ALS Environmental:

Low Level TOC

Tannins and Lignins

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Client Sample ID: Column Effluent-050321

Lab Sample ID: 410-39015-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	88		4.0	1.7	ug/L	10		8260C SIM 14D	Total/NA
1,1,1-Trichloroethane	17		1.0	0.30	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	39		1.0	0.20	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	200		1.0	0.20	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	1.3		1.0	0.30	ug/L	1		8260C	Total/NA
Chloroethane	4.0		1.0	0.20	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.4		1.0	0.20	ug/L	1		8260C	Total/NA
Methyl tertiary butyl ether	0.50	J	1.0	0.20	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.28	J	1.0	0.20	ug/L	1		8260C	Total/NA
Trichloroethene	1.0		1.0	0.20	ug/L	1		8260C	Total/NA
Vinyl chloride	0.46	J	1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: Column Influent-050321

Lab Sample ID: 410-39015-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	77		4.0	1.7	ug/L	10		8260C SIM 14D	Total/NA
1,1,1-Trichloroethane	16		1.0	0.30	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	39		1.0	0.20	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	200		1.0	0.20	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	1.3		1.0	0.30	ug/L	1		8260C	Total/NA
Chloroethane	4.1		1.0	0.20	ug/L	1		8260C	Total/NA
Methyl tertiary butyl ether	0.48	J	1.0	0.20	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.23	J	1.0	0.20	ug/L	1		8260C	Total/NA
Trichloroethene	0.94	J	1.0	0.20	ug/L	1		8260C	Total/NA
Vinyl chloride	0.45	J	1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: Column Effluent-050521

Lab Sample ID: 410-39015-3

No Detections.

Client Sample ID: Column Influent-050521

Lab Sample ID: 410-39015-4

No Detections.

Client Sample ID: Column Effluent-050721

Lab Sample ID: 410-39015-5

No Detections.

Client Sample ID: Column Influent-050721

Lab Sample ID: 410-39015-6

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 410-39015-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Client Sample ID: Column Effluent-050321

Lab Sample ID: 410-39015-1

Date Collected: 05/03/21 06:55

Matrix: Water

Date Received: 05/08/21 17:19

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	88		4.0	1.7	ug/L			05/10/21 18:51	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	101		80 - 120					05/10/21 18:51	10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	17		1.0	0.30	ug/L			05/12/21 06:30	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
1,1-Dichloroethane	39		1.0	0.20	ug/L			05/12/21 06:30	1
1,1-Dichloroethene	200		1.0	0.20	ug/L			05/12/21 06:30	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			05/12/21 06:30	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			05/12/21 06:30	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			05/12/21 06:30	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/12/21 06:30	1
1,2-Dichloroethane	1.3		1.0	0.30	ug/L			05/12/21 06:30	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/12/21 06:30	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/12/21 06:30	1
2-Butanone	<0.30		10	0.30	ug/L			05/12/21 06:30	1
2-Hexanone	<0.30		10	0.30	ug/L			05/12/21 06:30	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			05/12/21 06:30	1
Acetone	<0.70		20	0.70	ug/L			05/12/21 06:30	1
Benzene	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			05/12/21 06:30	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
Bromoform	<1.0		4.0	1.0	ug/L			05/12/21 06:30	1
Bromomethane	<0.30		1.0	0.30	ug/L			05/12/21 06:30	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			05/12/21 06:30	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
Chloroethane	4.0		1.0	0.20	ug/L			05/12/21 06:30	1
Chloroform	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
Chloromethane	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
cis-1,2-Dichloroethene	1.4		1.0	0.20	ug/L			05/12/21 06:30	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
Cyclohexane	<1.0		5.0	1.0	ug/L			05/12/21 06:30	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			05/12/21 06:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			05/12/21 06:30	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			05/12/21 06:30	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			05/12/21 06:30	1
Methyl acetate	<0.30		5.0	0.30	ug/L			05/12/21 06:30	1
Methyl tertiary butyl ether	0.50 J		1.0	0.20	ug/L			05/12/21 06:30	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			05/12/21 06:30	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			05/12/21 06:30	1
Naphthalene	<1.0		5.0	1.0	ug/L			05/12/21 06:30	1

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Client Sample ID: Column Effluent-050321

Lab Sample ID: 410-39015-1

Date Collected: 05/03/21 06:55

Matrix: Water

Date Received: 05/08/21 17:19

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.40		1.0	0.40	ug/L			05/12/21 06:30	1
Styrene	<0.20		5.0	0.20	ug/L			05/12/21 06:30	1
Tetrachloroethene	0.28	J	1.0	0.20	ug/L			05/12/21 06:30	1
Toluene	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
Trichloroethene	1.0		1.0	0.20	ug/L			05/12/21 06:30	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			05/12/21 06:30	1
Vinyl chloride	0.46	J	1.0	0.20	ug/L			05/12/21 06:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120					05/12/21 06:30	1
4-Bromofluorobenzene (Surr)	98		80 - 120					05/12/21 06:30	1
Dibromofluoromethane (Surr)	100		80 - 120					05/12/21 06:30	1
Toluene-d8 (Surr)	99		80 - 120					05/12/21 06:30	1

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Client Sample ID: Column Influent-050321

Lab Sample ID: 410-39015-2

Date Collected: 05/03/21 07:05

Matrix: Water

Date Received: 05/08/21 17:19

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	77		4.0	1.7	ug/L			05/10/21 19:11	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120					05/10/21 19:11	10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	16		1.0	0.30	ug/L			05/12/21 06:52	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
1,1-Dichloroethane	39		1.0	0.20	ug/L			05/12/21 06:52	1
1,1-Dichloroethene	200		1.0	0.20	ug/L			05/12/21 06:52	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			05/12/21 06:52	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			05/12/21 06:52	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			05/12/21 06:52	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/12/21 06:52	1
1,2-Dichloroethane	1.3		1.0	0.30	ug/L			05/12/21 06:52	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/12/21 06:52	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/12/21 06:52	1
2-Butanone	<0.30		10	0.30	ug/L			05/12/21 06:52	1
2-Hexanone	<0.30		10	0.30	ug/L			05/12/21 06:52	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			05/12/21 06:52	1
Acetone	<0.70		20	0.70	ug/L			05/12/21 06:52	1
Benzene	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			05/12/21 06:52	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
Bromoform	<1.0		4.0	1.0	ug/L			05/12/21 06:52	1
Bromomethane	<0.30		1.0	0.30	ug/L			05/12/21 06:52	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			05/12/21 06:52	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
Chloroethane	4.1		1.0	0.20	ug/L			05/12/21 06:52	1
Chloroform	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
Chloromethane	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
cis-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
Cyclohexane	<1.0		5.0	1.0	ug/L			05/12/21 06:52	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			05/12/21 06:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			05/12/21 06:52	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			05/12/21 06:52	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			05/12/21 06:52	1
Methyl acetate	<0.30		5.0	0.30	ug/L			05/12/21 06:52	1
Methyl tertiary butyl ether	0.48	J	1.0	0.20	ug/L			05/12/21 06:52	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			05/12/21 06:52	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			05/12/21 06:52	1
Naphthalene	<1.0		5.0	1.0	ug/L			05/12/21 06:52	1

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Client Sample ID: Column Influent-050321

Lab Sample ID: 410-39015-2

Date Collected: 05/03/21 07:05

Matrix: Water

Date Received: 05/08/21 17:19

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.40		1.0	0.40	ug/L			05/12/21 06:52	1
Styrene	<0.20		5.0	0.20	ug/L			05/12/21 06:52	1
Tetrachloroethene	0.23	J	1.0	0.20	ug/L			05/12/21 06:52	1
Toluene	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
Trichloroethene	0.94	J	1.0	0.20	ug/L			05/12/21 06:52	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			05/12/21 06:52	1
Vinyl chloride	0.45	J	1.0	0.20	ug/L			05/12/21 06:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120					05/12/21 06:52	1
4-Bromofluorobenzene (Surr)	98		80 - 120					05/12/21 06:52	1
Dibromofluoromethane (Surr)	99		80 - 120					05/12/21 06:52	1
Toluene-d8 (Surr)	100		80 - 120					05/12/21 06:52	1

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-39015-7

Date Collected: 05/03/21 00:00

Matrix: Water

Date Received: 05/08/21 17:19

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.17		0.40	0.17	ug/L			05/10/21 17:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120					05/10/21 17:50	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.30		1.0	0.30	ug/L			05/11/21 23:31	1
1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
1,1-Dichloroethane	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
1,1-Dichloroethene	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			05/11/21 23:31	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			05/11/21 23:31	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			05/11/21 23:31	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/11/21 23:31	1
1,2-Dichloroethane	<0.30		1.0	0.30	ug/L			05/11/21 23:31	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/11/21 23:31	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/11/21 23:31	1
2-Butanone	<0.30		10	0.30	ug/L			05/11/21 23:31	1
2-Hexanone	<0.30		10	0.30	ug/L			05/11/21 23:31	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			05/11/21 23:31	1
Acetone	<0.70		20	0.70	ug/L			05/11/21 23:31	1
Benzene	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			05/11/21 23:31	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Bromoform	<1.0		4.0	1.0	ug/L			05/11/21 23:31	1
Bromomethane	<0.30		1.0	0.30	ug/L			05/11/21 23:31	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			05/11/21 23:31	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Chloroethane	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Chloroform	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Chloromethane	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
cis-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Cyclohexane	<1.0		5.0	1.0	ug/L			05/11/21 23:31	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			05/11/21 23:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			05/11/21 23:31	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			05/11/21 23:31	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			05/11/21 23:31	1
Methyl acetate	<0.30		5.0	0.30	ug/L			05/11/21 23:31	1
Methyl tertiary butyl ether	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			05/11/21 23:31	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			05/11/21 23:31	1
Naphthalene	<1.0		5.0	1.0	ug/L			05/11/21 23:31	1

Client Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-39015-7

Date Collected: 05/03/21 00:00

Matrix: Water

Date Received: 05/08/21 17:19

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.40		1.0	0.40	ug/L			05/11/21 23:31	1
Styrene	<0.20		5.0	0.20	ug/L			05/11/21 23:31	1
Tetrachloroethene	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Toluene	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Trichloroethene	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/11/21 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		05/11/21 23:31	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/11/21 23:31	1
Dibromofluoromethane (Surr)	99		80 - 120		05/11/21 23:31	1
Toluene-d8 (Surr)	100		80 - 120		05/11/21 23:31	1

Action Limit Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Client Sample ID: Column Effluent-050321

Lab Sample ID: 410-39015-1

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	17		ug/L	200	1.0	8260C	Total/NA
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,1,2-Trichloroethane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,1-Dichloroethane	39		ug/L	90	1.0	8260C	Total/NA
1,1-Dichloroethene	200		ug/L	7	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	<0.30		ug/L	0.2	5.0	8260C	Total/NA
1,2-Dibromoethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,2-Dichlorobenzene	<0.20		ug/L	600	5.0	8260C	Total/NA
1,2-Dichloroethane	1.3		ug/L	5	1.0	8260C	Total/NA
1,2-Dichloropropane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,3-Dichlorobenzene	<0.20		ug/L	2	5.0	8260C	Total/NA
1,4-Dichlorobenzene	<0.20		ug/L	75	5.0	8260C	Total/NA
2-Butanone	<0.30		ug/L	700	10	8260C	Total/NA
4-Methyl-2-pentanone	<0.50		ug/L	630	10	8260C	Total/NA
Acetone	<0.70		ug/L	550	20	8260C	Total/NA
Benzene	<0.20		ug/L	5	1.0	8260C	Total/NA
Bromodichloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Bromoform	<1.0		ug/L	80	4.0	8260C	Total/NA
Bromomethane	<0.30		ug/L	0.85	1.0	8260C	Total/NA
Carbon disulfide	<0.20		ug/L	100	5.0	8260C	Total/NA
Carbon tetrachloride	<0.20		ug/L	5	1.0	8260C	Total/NA
Chlorobenzene	<0.20		ug/L	100	1.0	8260C	Total/NA
Chloroethane	4.0		ug/L	3.6	1.0	8260C	Total/NA
Chloroform	<0.20		ug/L	80	1.0	8260C	Total/NA
Chloromethane	<0.20		ug/L	190	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	1.4		ug/L	70	1.0	8260C	Total/NA
cis-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Dibromochloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Ethylbenzene	<0.40		ug/L	700	1.0	8260C	Total/NA
Isopropylbenzene	<0.20		ug/L	66	5.0	8260C	Total/NA
Methyl tertiary butyl ether	0.50	J	ug/L	20	1.0	8260C	Total/NA
Naphthalene	<1.0		ug/L	0.65	5.0	8260C	Total/NA
o-Xylene	<0.40		ug/L	10000	1.0	8260C	Total/NA
Styrene	<0.20		ug/L	100	5.0	8260C	Total/NA
Tetrachloroethene	0.28	J	ug/L	5	1.0	8260C	Total/NA
Toluene	<0.20		ug/L	1000	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	<0.20		ug/L	100	1.0	8260C	Total/NA
trans-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Trichloroethene	1.0		ug/L	5	1.0	8260C	Total/NA
Vinyl chloride	0.46	J	ug/L	2	1.0	8260C	Total/NA

Client Sample ID: Column Influent-050321

Lab Sample ID: 410-39015-2

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	16		ug/L	200	1.0	8260C	Total/NA
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,1,2-Trichloroethane	<0.20		ug/L	5	1.0	8260C	Total/NA

Eurofins Lancaster Laboratories Env, LLC

Action Limit Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Client Sample ID: Column Influent-050321 (Continued)

Lab Sample ID: 410-39015-2

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1-Dichloroethane	39		ug/L	90	1.0	8260C	Total/NA
1,1-Dichloroethane	200		ug/L	7	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	<0.30		ug/L	0.2	5.0	8260C	Total/NA
1,2-Dibromoethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,2-Dichlorobenzene	<0.20		ug/L	600	5.0	8260C	Total/NA
1,2-Dichloroethane	1.3		ug/L	5	1.0	8260C	Total/NA
1,2-Dichloropropane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,3-Dichlorobenzene	<0.20		ug/L	2	5.0	8260C	Total/NA
1,4-Dichlorobenzene	<0.20		ug/L	75	5.0	8260C	Total/NA
2-Butanone	<0.30		ug/L	700	10	8260C	Total/NA
4-Methyl-2-pentanone	<0.50		ug/L	630	10	8260C	Total/NA
Acetone	<0.70		ug/L	550	20	8260C	Total/NA
Benzene	<0.20		ug/L	5	1.0	8260C	Total/NA
Bromodichloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Bromoform	<1.0		ug/L	80	4.0	8260C	Total/NA
Bromomethane	<0.30		ug/L	0.85	1.0	8260C	Total/NA
Carbon disulfide	<0.20		ug/L	100	5.0	8260C	Total/NA
Carbon tetrachloride	<0.20		ug/L	5	1.0	8260C	Total/NA
Chlorobenzene	<0.20		ug/L	100	1.0	8260C	Total/NA
Chloroethane	4.1		ug/L	3.6	1.0	8260C	Total/NA
Chloroform	<0.20		ug/L	80	1.0	8260C	Total/NA
Chloromethane	<0.20		ug/L	190	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	<0.20		ug/L	70	1.0	8260C	Total/NA
cis-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Dibromochloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Ethylbenzene	<0.40		ug/L	700	1.0	8260C	Total/NA
Isopropylbenzene	<0.20		ug/L	66	5.0	8260C	Total/NA
Methyl tertiary butyl ether	0.48 J		ug/L	20	1.0	8260C	Total/NA
Naphthalene	<1.0		ug/L	0.65	5.0	8260C	Total/NA
o-Xylene	<0.40		ug/L	10000	1.0	8260C	Total/NA
Styrene	<0.20		ug/L	100	5.0	8260C	Total/NA
Tetrachloroethene	0.23 J		ug/L	5	1.0	8260C	Total/NA
Toluene	<0.20		ug/L	1000	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	<0.20		ug/L	100	1.0	8260C	Total/NA
trans-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Trichloroethene	0.94 J		ug/L	5	1.0	8260C	Total/NA
Vinyl chloride	0.45 J		ug/L	2	1.0	8260C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-39015-7

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	<0.30		ug/L	200	1.0	8260C	Total/NA
1,1,1,2-Tetrachloroethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,1,2-Trichloroethane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,1-Dichloroethane	<0.20		ug/L	90	1.0	8260C	Total/NA
1,1-Dichloroethene	<0.20		ug/L	7	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	<0.30		ug/L	0.2	5.0	8260C	Total/NA

Euofins Lancaster Laboratories Env, LLC

Action Limit Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Client Sample ID: Trip Blank (Continued)

Lab Sample ID: 410-39015-7

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
1,2-Dibromoethane	<0.20		ug/L	0.05	1.0	8260C	Total/NA
1,2-Dichlorobenzene	<0.20		ug/L	600	5.0	8260C	Total/NA
1,2-Dichloroethane	<0.30		ug/L	5	1.0	8260C	Total/NA
1,2-Dichloropropane	<0.20		ug/L	5	1.0	8260C	Total/NA
1,3-Dichlorobenzene	<0.20		ug/L	2	5.0	8260C	Total/NA
1,4-Dichlorobenzene	<0.20		ug/L	75	5.0	8260C	Total/NA
2-Butanone	<0.30		ug/L	700	10	8260C	Total/NA
4-Methyl-2-pentanone	<0.50		ug/L	630	10	8260C	Total/NA
Acetone	<0.70		ug/L	550	20	8260C	Total/NA
Benzene	<0.20		ug/L	5	1.0	8260C	Total/NA
Bromodichloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Bromoform	<1.0		ug/L	80	4.0	8260C	Total/NA
Bromomethane	<0.30		ug/L	0.85	1.0	8260C	Total/NA
Carbon disulfide	<0.20		ug/L	100	5.0	8260C	Total/NA
Carbon tetrachloride	<0.20		ug/L	5	1.0	8260C	Total/NA
Chlorobenzene	<0.20		ug/L	100	1.0	8260C	Total/NA
Chloroethane	<0.20		ug/L	3.6	1.0	8260C	Total/NA
Chloroform	<0.20		ug/L	80	1.0	8260C	Total/NA
Chloromethane	<0.20		ug/L	190	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	<0.20		ug/L	70	1.0	8260C	Total/NA
cis-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Dibromochloromethane	<0.20		ug/L	80	1.0	8260C	Total/NA
Ethylbenzene	<0.40		ug/L	700	1.0	8260C	Total/NA
Isopropylbenzene	<0.20		ug/L	66	5.0	8260C	Total/NA
Methyl tertiary butyl ether	<0.20		ug/L	20	1.0	8260C	Total/NA
Naphthalene	<1.0		ug/L	0.65	5.0	8260C	Total/NA
o-Xylene	<0.40		ug/L	10000	1.0	8260C	Total/NA
Styrene	<0.20		ug/L	100	5.0	8260C	Total/NA
Tetrachloroethene	<0.20		ug/L	5	1.0	8260C	Total/NA
Toluene	<0.20		ug/L	1000	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	<0.20		ug/L	100	1.0	8260C	Total/NA
trans-1,3-Dichloropropene	<0.20		ug/L	0.44	1.0	8260C	Total/NA
Trichloroethene	<0.20		ug/L	5	1.0	8260C	Total/NA
Vinyl chloride	<0.20		ug/L	2	1.0	8260C	Total/NA

Surrogate Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
410-39015-1	Column Effluent-050321	101	98	100	99
410-39015-2	Column Influent-050321	100	98	99	100
410-39015-7	Trip Blank	100	99	99	100
LCS 410-125147/4	Lab Control Sample	100	99	100	100
MB 410-125147/6	Method Blank	100	99	98	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TOL (80-120)
410-39015-1	Column Effluent-050321	101
410-39015-2	Column Influent-050321	101
410-39015-7	Trip Blank	100
LCS 410-124390/1013	Lab Control Sample	100
LCSD 410-124390/14	Lab Control Sample Dup	100
MB 410-124390/16	Method Blank	100

Surrogate Legend

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-125147/6
Matrix: Water
Analysis Batch: 125147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.30		1.0	0.30	ug/L			05/11/21 23:09	1
1,1,1,2,2-Tetrachloroethane	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
1,1,2-Trichloroethane	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
1,1-Dichloroethane	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
1,1-Dichloroethene	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
1,2,3-Trichlorobenzene	<0.40		5.0	0.40	ug/L			05/11/21 23:09	1
1,2,4-Trichlorobenzene	<0.30		5.0	0.30	ug/L			05/11/21 23:09	1
1,2-Dibromo-3-Chloropropane	<0.30		5.0	0.30	ug/L			05/11/21 23:09	1
1,2-Dibromoethane	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
1,2-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/11/21 23:09	1
1,2-Dichloroethane	<0.30		1.0	0.30	ug/L			05/11/21 23:09	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
1,3-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/11/21 23:09	1
1,4-Dichlorobenzene	<0.20		5.0	0.20	ug/L			05/11/21 23:09	1
2-Butanone	<0.30		10	0.30	ug/L			05/11/21 23:09	1
2-Hexanone	<0.30		10	0.30	ug/L			05/11/21 23:09	1
4-Methyl-2-pentanone	<0.50		10	0.50	ug/L			05/11/21 23:09	1
Acetone	<0.70		20	0.70	ug/L			05/11/21 23:09	1
Benzene	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Bromochloromethane	<0.20		5.0	0.20	ug/L			05/11/21 23:09	1
Bromodichloromethane	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Bromoform	<1.0		4.0	1.0	ug/L			05/11/21 23:09	1
Bromomethane	<0.30		1.0	0.30	ug/L			05/11/21 23:09	1
Carbon disulfide	<0.20		5.0	0.20	ug/L			05/11/21 23:09	1
Carbon tetrachloride	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Chlorobenzene	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Chloroethane	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Chloroform	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Chloromethane	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
cis-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
cis-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Cyclohexane	<1.0		5.0	1.0	ug/L			05/11/21 23:09	1
Dibromochloromethane	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Ethylbenzene	<0.40		1.0	0.40	ug/L			05/11/21 23:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20		10	0.20	ug/L			05/11/21 23:09	1
Isopropylbenzene	<0.20		5.0	0.20	ug/L			05/11/21 23:09	1
m&p-Xylene	<1.0		5.0	1.0	ug/L			05/11/21 23:09	1
Methyl acetate	<0.30		5.0	0.30	ug/L			05/11/21 23:09	1
Methyl tertiary butyl ether	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Methylcyclohexane	<0.50		5.0	0.50	ug/L			05/11/21 23:09	1
Methylene Chloride	<0.30		1.0	0.30	ug/L			05/11/21 23:09	1
Naphthalene	<1.0		5.0	1.0	ug/L			05/11/21 23:09	1
o-Xylene	<0.40		1.0	0.40	ug/L			05/11/21 23:09	1
Styrene	<0.20		5.0	0.20	ug/L			05/11/21 23:09	1
Tetrachloroethene	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Toluene	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
trans-1,2-Dichloroethene	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-125147/6
Matrix: Water
Analysis Batch: 125147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Trichloroethene	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Trichlorofluoromethane	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/11/21 23:09	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		05/11/21 23:09	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/11/21 23:09	1
Dibromofluoromethane (Surr)	98		80 - 120		05/11/21 23:09	1
Toluene-d8 (Surr)	100		80 - 120		05/11/21 23:09	1

Lab Sample ID: LCS 410-125147/4
Matrix: Water
Analysis Batch: 125147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	67 - 126
1,1,1,2-Tetrachloroethane	20.0	19.2		ug/L		96	72 - 120
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	80 - 120
1,1-Dichloroethane	20.0	19.3		ug/L		96	80 - 120
1,1-Dichloroethene	20.0	21.5		ug/L		108	80 - 131
1,2,3-Trichlorobenzene	20.0	18.8		ug/L		94	66 - 120
1,2,4-Trichlorobenzene	20.0	18.9		ug/L		95	63 - 120
1,2-Dibromo-3-Chloropropane	20.0	17.7		ug/L		88	47 - 131
1,2-Dibromoethane	20.0	18.9		ug/L		94	77 - 120
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120
1,2-Dichloroethane	20.0	18.8		ug/L		94	73 - 124
1,2-Dichloropropane	20.0	19.6		ug/L		98	80 - 120
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120
2-Butanone	250	240		ug/L		96	59 - 135
2-Hexanone	250	233		ug/L		93	56 - 135
4-Methyl-2-pentanone	250	231		ug/L		92	62 - 133
Acetone	250	250		ug/L		100	54 - 157
Benzene	20.0	19.2		ug/L		96	80 - 120
Bromochloromethane	20.0	19.0		ug/L		95	80 - 120
Bromodichloromethane	20.0	19.1		ug/L		96	71 - 120
Bromoform	20.0	18.2		ug/L		91	51 - 120
Bromomethane	20.0	18.0		ug/L		90	53 - 128
Carbon disulfide	20.0	21.1		ug/L		106	65 - 128
Carbon tetrachloride	20.0	19.6		ug/L		98	64 - 134
Chlorobenzene	20.0	19.4		ug/L		97	80 - 120
Chloroethane	20.0	17.7		ug/L		89	55 - 123
Chloroform	20.0	19.0		ug/L		95	80 - 120
Chloromethane	20.0	21.7		ug/L		108	56 - 121
cis-1,2-Dichloroethene	20.0	19.5		ug/L		98	80 - 125
cis-1,3-Dichloropropene	20.0	19.1		ug/L		96	75 - 120
Cyclohexane	20.0	20.5		ug/L		103	68 - 126

QC Sample Results

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-125147/4
Matrix: Water
Analysis Batch: 125147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	20.0	18.9		ug/L		94	71 - 120
Dichlorodifluoromethane	20.0	25.4		ug/L		127	41 - 127
Ethylbenzene	20.0	19.6		ug/L		98	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.1		ug/L		111	73 - 139
Isopropylbenzene	20.0	19.3		ug/L		96	80 - 120
m&p-Xylene	40.0	39.1		ug/L		98	80 - 120
Methyl acetate	20.0	19.0		ug/L		95	54 - 136
Methyl tertiary butyl ether	20.0	19.4		ug/L		97	69 - 122
Methylcyclohexane	20.0	20.0		ug/L		100	67 - 121
Methylene Chloride	20.0	20.0		ug/L		100	80 - 120
Naphthalene	20.0	18.9		ug/L		94	53 - 124
o-Xylene	20.0	19.6		ug/L		98	80 - 120
Styrene	20.0	19.7		ug/L		98	80 - 120
Tetrachloroethene	20.0	18.7		ug/L		94	80 - 120
Toluene	20.0	19.0		ug/L		95	80 - 120
trans-1,2-Dichloroethene	20.0	19.7		ug/L		98	80 - 126
trans-1,3-Dichloropropene	20.0	19.5		ug/L		97	67 - 120
Trichloroethene	20.0	19.2		ug/L		96	80 - 120
Trichlorofluoromethane	20.0	19.8		ug/L		99	55 - 135
Vinyl chloride	20.0	22.0		ug/L		110	56 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-124390/16
Matrix: Water
Analysis Batch: 124390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.17		0.40	0.17	ug/L			05/10/21 17:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		05/10/21 17:10	1

Lab Sample ID: LCS 410-124390/1013
Matrix: Water
Analysis Batch: 124390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	4.81	4.41		ug/L		92	74 - 133

QC Sample Results

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Method: 8260C SIM 14D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-124390/1013
Matrix: Water
Analysis Batch: 124390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

	LCS	LCS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 410-124390/14
Matrix: Water
Analysis Batch: 124390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>		<i>RPD Limit</i>	
							<i>RPD</i>	<i>Limit</i>		
1,4-Dioxane	4.81	4.72		ug/L		98	74 - 133	7	30	

	LCSD	LCSD	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Toluene-d8 (Surr)	100		80 - 120

QC Association Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

GC/MS VOA

Analysis Batch: 124390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-39015-1	Column Effluent-050321	Total/NA	Water	8260C SIM 14D	
410-39015-2	Column Influent-050321	Total/NA	Water	8260C SIM 14D	
410-39015-7	Trip Blank	Total/NA	Water	8260C SIM 14D	
MB 410-124390/16	Method Blank	Total/NA	Water	8260C SIM 14D	
LCS 410-124390/1013	Lab Control Sample	Total/NA	Water	8260C SIM 14D	
LCSD 410-124390/14	Lab Control Sample Dup	Total/NA	Water	8260C SIM 14D	

Analysis Batch: 125147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-39015-1	Column Effluent-050321	Total/NA	Water	8260C	
410-39015-2	Column Influent-050321	Total/NA	Water	8260C	
410-39015-7	Trip Blank	Total/NA	Water	8260C	
MB 410-125147/6	Method Blank	Total/NA	Water	8260C	
LCS 410-125147/4	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Client Sample ID: Column Effluent-050321

Lab Sample ID: 410-39015-1

Date Collected: 05/03/21 06:55

Matrix: Water

Date Received: 05/08/21 17:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	125147	05/12/21 06:30	TQ4J	ELLE
Total/NA	Analysis	8260C SIM 14D		10	124390	05/10/21 18:51	USEJ	ELLE

Client Sample ID: Column Influent-050321

Lab Sample ID: 410-39015-2

Date Collected: 05/03/21 07:05

Matrix: Water

Date Received: 05/08/21 17:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	125147	05/12/21 06:52	TQ4J	ELLE
Total/NA	Analysis	8260C SIM 14D		10	124390	05/10/21 19:11	USEJ	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-39015-7

Date Collected: 05/03/21 00:00

Matrix: Water

Date Received: 05/08/21 17:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	125147	05/11/21 23:31	TQ4J	ELLE
Total/NA	Analysis	8260C SIM 14D		1	124390	05/10/21 17:50	USEJ	ELLE

Laboratory References:

ALS MTown = ALS Environmental - Middletown, PA, 301 Fulling Mill Road, Middletown, PA 17057

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: WSP USA Corp.
 Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,4-Dichlorobenzene
8260C		Water	2-Butanone
8260C		Water	2-Hexanone
8260C		Water	4-Methyl-2-pentanone
8260C		Water	Acetone
8260C		Water	Benzene
8260C		Water	Bromochloromethane
8260C		Water	Bromodichloromethane
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Cyclohexane
8260C		Water	Dibromochloromethane
8260C		Water	Dichlorodifluoromethane
8260C		Water	Ethylbenzene
8260C		Water	Isopropylbenzene
8260C		Water	m&p-Xylene
8260C		Water	Methyl acetate
8260C		Water	Methyl tertiary butyl ether
8260C		Water	Methylcyclohexane
8260C		Water	Methylene Chloride
8260C		Water	Naphthalene
8260C		Water	o-Xylene
8260C		Water	Styrene

Accreditation/Certification Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	06-30-22
8260C	Water	Tetrachloroethene	
8260C	Water	Toluene	
8260C	Water	trans-1,2-Dichloroethene	
8260C	Water	trans-1,3-Dichloropropene	
8260C	Water	Trichloroethene	
8260C	Water	Trichlorofluoromethane	
8260C	Water	Vinyl chloride	
8260C SIM 14D	Water	1,4-Dioxane	

Method Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C SIM 14D	Volatile Organic Compounds (GC/MS)	SW846	ELLE
5310C	SM 5310C TOC	SM18	ALS MTown
5550B	SM 5550BTannins and Lignins	SM18	ALS MTown
5030C	Purge and Trap	SW846	ELLE

Protocol References:

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ALS MTown = ALS Environmental - Middletown, PA, 301 Fulling Mill Road, Middletown, PA 17057

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

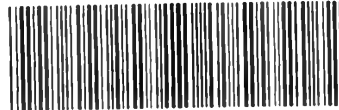
Sample Summary

Client: WSP USA Corp.
Project/Site: Former Kop-Flex Facility Site

Job ID: 410-39015-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-39015-1	Column Effluent-050321	Water	05/03/21 06:55	05/08/21 17:19	
410-39015-2	Column Influent-050321	Water	05/03/21 07:05	05/08/21 17:19	
410-39015-3	Column Effluent-050521	Water	05/05/21 12:05	05/08/21 17:19	
410-39015-4	Column Influent-050521	Water	05/05/21 12:10	05/08/21 17:19	
410-39015-5	Column Effluent-050721	Water	05/07/21 11:05	05/08/21 17:19	
410-39015-6	Column Influent-050721	Water	05/07/21 11:15	05/08/21 17:19	
410-39015-7	Trip Blank	Water	05/03/21 00:00	05/08/21 17:19	





410-39015 Chain of Custody

Chain of Custody Record

Sampler Dave Seaman	Lab PM Cottman, Hannah L	Carrier Tracking No(s)	COC No 410-18548-3588 1
Phone 410 299-3125	E-Mail Hannah.Cottman@eurofinset.com	State of Origin Maryland	Page Page 1 of 1

Company WSP USA Corp.	PWSID NA	Analysis Requested	Job #
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Address	Due Date Requested:	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 624.1_Prec, 8260C, 8260C_SIM_14DX 5310C - Low Level TOC 5550B - Tannins and Lignin	Total Number of Containers	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
City Herndon	TAT Requested (days): Standard			
State, Zip VA, 20171	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Phone 703-318-3936(Tel)	PO #: 31401545 010			
Email eric.johnson@wsp.com	WO #			
Project Name Former Kop-Flex Facility Site	Project # 41001602			
Site	SSOW#			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Or other, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624.1_Prec, 8260C, 8260C_SIM_14DX	5310C - Low Level TOC	5550B - Tannins and Lignin	Total Number of Containers	Special Instructions/Note:
Column Effluent - 050321	5-3-21	0655	G	W	X	X	X				
Column Influent - 050321	5-3-21	0705	G	W	X	X	X				
Column Effluent - 050521	5-5-21	1205	G	W			X	X			
Column Influent - 050521	5-5-21	1210	G	W			X	X			
Column Effluent - 050721	5-7-21	1105	G	W			X	X			
Column Influent - 050721	5-7-21	1115	G	W			X	X			

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
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Deliverable Requested: I, II, III, IV, Other (specify) _____

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment
Relinquished by <i>[Signature]</i>	Date/Time 5-7-21 1230	Company S&S Tech	Received by <i>[Signature]</i> Date/Time 5/7/21 12:30 Company
Relinquished by <i>[Signature]</i>	Date/Time 5/7/21 16:43	Company	Received by _____ Date/Time _____ Company
Relinquished by _____	Date/Time _____	Company _____	Received by <i>[Signature]</i> Date/Time 5-7-21 1714 Company EAL

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No. _____	Cooler Temperature(s) °C and Other Remarks 3.9
--------------------------------------------------------------------------------	------------------------	---------------------------------------------------

Login Sample Receipt Checklist

Client: WSP USA Corp.

Job Number: 410-39015-1

Login Number: 39015
List Number: 1
Creator: Rivera, Tatiana

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6C$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6C$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

ENCLOSURE B - LABORATORY ANALYTICAL REPORTS FOR RECOVERY WELL
AND ONSITE GROUNDWATER MONITORING WELL SAMPLES (MAY 2021)

May 18, 2021

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

RE: Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Dear Eric Johnson:

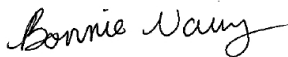
Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,



Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Molly Long, WSP
Pam Robertson, WSP USA



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92537976001	MW-27D	Water	05/09/21 10:45	05/11/21 11:40
92537976002	MW-3	Water	05/09/21 11:00	05/11/21 11:40
92537976003	MW-43	Water	05/09/21 11:15	05/11/21 11:40
92537976004	MW-39	Water	05/09/21 11:35	05/11/21 11:40
92537976005	MW-42	Water	05/09/21 11:45	05/11/21 11:40
92537976006	MW-18	Water	05/09/21 12:00	05/11/21 11:40
92537976007	MW-40D	Water	05/09/21 13:05	05/11/21 11:40
92537976008	MW-38R	Water	05/09/21 13:25	05/11/21 11:40
92537976009	MW-44	Water	05/09/21 14:25	05/11/21 11:40
92537976010	MW-21D	Water	05/09/21 14:50	05/11/21 11:40
92537976011	MW-41D	Water	05/09/21 15:05	05/11/21 11:40
92537976012	MW-1D	Water	05/09/21 15:50	05/11/21 11:40
92537976013	MW-1	Water	05/09/21 16:00	05/11/21 11:40
92537976014	MW-22D	Water	05/09/21 16:20	05/11/21 11:40
92537976015	MW-20	Water	05/09/21 16:40	05/11/21 11:40
92537976016	DUP-20210509A	Water	05/09/21 08:00	05/11/21 11:40
92537976017	MW-4	Water	05/09/21 16:55	05/11/21 11:40
92537976018	MW-9	Water	05/09/21 17:05	05/11/21 11:40
92537976019	MW-23D	Water	05/09/21 17:15	05/11/21 11:40
92537976020	MW-16	Water	05/09/21 17:50	05/11/21 11:40
92537976021	MW-16D	Water	05/09/21 18:00	05/11/21 11:40
92537976022	DUP-20210509B	Water	05/09/21 09:00	05/11/21 11:40
92537976023	TRIP BLANK A	Water	05/09/21 00:00	05/11/21 11:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92537976001	MW-27D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976002	MW-3	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976003	MW-43	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976004	MW-39	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976005	MW-42	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976006	MW-18	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976007	MW-40D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976008	MW-38R	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976009	MW-44	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976010	MW-21D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976011	MW-41D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976012	MW-1D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976013	MW-1	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976014	MW-22D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976015	MW-20	EPA 8260D	BSH	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976016	DUP-20210509A	EPA 8260D	BSH	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976017	MW-4	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976018	MW-9	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537976019	MW-23D	EPA 8260D	CL	63	PASI-C

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92537976020	MW-16	EPA 8260D Mod.	LMB	3	PASI-C
		EPA 8260D	BSH	63	PASI-C
92537976021	MW-16D	EPA 8260D Mod.	LMB	3	PASI-C
		EPA 8260D	CL	63	PASI-C
92537976022	DUP-20210509B	EPA 8260D Mod.	LMB	3	PASI-C
		EPA 8260D	CL	63	PASI-C
92537976023	TRIP BLANK A	EPA 8260D Mod.	LMB	3	PASI-C
		EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: MW-27D	Lab ID: 92537976001	Collected: 05/09/21 10:45	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 22:41	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 22:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 22:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 22:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 22:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 22:41	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 22:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 22:41	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 22:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 22:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 22:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 22:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 22:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 22:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 22:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 22:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 22:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 22:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 22:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 22:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 22:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 22:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 22:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 22:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 22:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 22:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 22:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 22:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 22:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 22:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 22:41	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 22:41	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 22:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 22:41	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 22:41	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 22:41	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 22:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 22:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 22:41	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 22:41	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 22:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 22:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 22:41	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-27D	Lab ID: 92537976001	Collected: 05/09/21 10:45	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 22:41	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 22:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 22:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 22:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 22:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 22:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 22:41	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 22:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 22:41	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 22:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 22:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 22:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 22:41	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/12/21 22:41	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 22:41	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/11/21 16:32	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/11/21 16:32	17060-07-0	
Toluene-d8 (S)	95	%	66-133	1		05/11/21 16:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-3	Lab ID: 92537976002	Collected: 05/09/21 11:00	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 22:59	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 22:59	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 22:59	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 22:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 22:59	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 22:59	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 22:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 22:59	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 22:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 22:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 22:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 22:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 22:59	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 22:59	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 22:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 22:59	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 22:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 22:59	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 22:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 22:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 22:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 22:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 22:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 22:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 22:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 22:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 22:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 22:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 22:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 22:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 22:59	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 22:59	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 22:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 22:59	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 22:59	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 22:59	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 22:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 22:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 22:59	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 22:59	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 22:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 22:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 22:59	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-3	Lab ID: 92537976002	Collected: 05/09/21 11:00	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 22:59	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 22:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 22:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 22:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 22:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 22:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 22:59	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 22:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 22:59	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 22:59	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 22:59	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 22:59	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		05/12/21 22:59	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/12/21 22:59	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 22:59	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/11/21 16:51	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		05/11/21 16:51	17060-07-0	
Toluene-d8 (S)	95	%	66-133	1		05/11/21 16:51	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: MW-43	Lab ID: 92537976003	Collected: 05/09/21 11:15	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 23:17	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 23:17	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 23:17	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 23:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 23:17	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 23:17	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 23:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 23:17	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 23:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 23:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 23:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 23:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 23:17	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 23:17	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 23:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 23:17	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 23:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 23:17	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 23:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 23:17	75-71-8	
1,1-Dichloroethane	2.7	ug/L	1.0	1		05/12/21 23:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 23:17	107-06-2	
1,1-Dichloroethene	31.7	ug/L	1.0	1		05/12/21 23:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 23:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 23:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 23:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 23:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 23:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 23:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 23:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 23:17	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 23:17	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 23:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 23:17	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 23:17	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 23:17	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 23:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 23:17	108-10-1	
Methyl-tert-butyl ether	2.7	ug/L	1.0	1		05/12/21 23:17	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 23:17	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 23:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 23:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 23:17	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-43	Lab ID: 92537976003	Collected: 05/09/21 11:15	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 23:17	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 23:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 23:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 23:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 23:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 23:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 23:17	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 23:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 23:17	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 23:17	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 23:17	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 23:17	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 23:17	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/12/21 23:17	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		05/12/21 23:17	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	34.1	ug/L	2.0	1		05/11/21 17:11	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/11/21 17:11	17060-07-0	
Toluene-d8 (S)	94	%	66-133	1		05/11/21 17:11	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: MW-39	Lab ID: 92537976004	Collected: 05/09/21 11:35	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 23:35	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 23:35	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 23:35	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 23:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 23:35	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 23:35	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 23:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 23:35	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 23:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 23:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 23:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 23:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 23:35	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 23:35	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 23:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 23:35	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 23:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 23:35	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 23:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 23:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 23:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 23:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 23:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 23:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 23:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 23:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 23:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 23:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 23:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 23:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 23:35	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 23:35	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 23:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 23:35	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 23:35	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 23:35	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 23:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 23:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 23:35	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 23:35	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 23:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 23:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 23:35	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-39	Lab ID: 92537976004	Collected: 05/09/21 11:35	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 23:35	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 23:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 23:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 23:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 23:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 23:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 23:35	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 23:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 23:35	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 23:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 23:35	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 23:35	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 23:35	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/12/21 23:35	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 23:35	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/11/21 17:30	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		05/11/21 17:30	17060-07-0	
Toluene-d8 (S)	93	%	66-133	1		05/11/21 17:30	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: MW-42	Lab ID: 92537976005	Collected: 05/09/21 11:45	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 23:54	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 23:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 23:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 23:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 23:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 23:54	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 23:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 23:54	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 23:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 23:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 23:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 23:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 23:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 23:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 23:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 23:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 23:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 23:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 23:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 23:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 23:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 23:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 23:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 23:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 23:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 23:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 23:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 23:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 23:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 23:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 23:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 23:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 23:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 23:54	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 23:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 23:54	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 23:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 23:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 23:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 23:54	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 23:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 23:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 23:54	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-42	Lab ID: 92537976005	Collected: 05/09/21 11:45	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 23:54	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 23:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 23:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 23:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 23:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 23:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 23:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 23:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 23:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 23:54	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 23:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 23:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 23:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/12/21 23:54	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		05/12/21 23:54	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 23:54	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	13.3	ug/L	2.0	1		05/12/21 03:28	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	86	%	70-130	1		05/12/21 03:28	17060-07-0	
Toluene-d8 (S)	109	%	66-133	1		05/12/21 03:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: MW-18	Lab ID: 92537976006	Collected: 05/09/21 12:00	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/13/21 00:12	67-64-1	
Benzene	ND	ug/L	1.0	1		05/13/21 00:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/13/21 00:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/13/21 00:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/13/21 00:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/13/21 00:12	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/13/21 00:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/13/21 00:12	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/13/21 00:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/13/21 00:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/13/21 00:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/13/21 00:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/13/21 00:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/13/21 00:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/13/21 00:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/13/21 00:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/13/21 00:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/13/21 00:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/13/21 00:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/13/21 00:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/13/21 00:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/13/21 00:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/13/21 00:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/13/21 00:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/13/21 00:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/13/21 00:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/13/21 00:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/13/21 00:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/13/21 00:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/13/21 00:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/13/21 00:12	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/13/21 00:12	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/13/21 00:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/13/21 00:12	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/13/21 00:12	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/13/21 00:12	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/13/21 00:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/13/21 00:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/13/21 00:12	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/13/21 00:12	91-20-3	
Styrene	ND	ug/L	1.0	1		05/13/21 00:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/13/21 00:12	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/13/21 00:12	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-18	Lab ID: 92537976006	Collected: 05/09/21 12:00	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/13/21 00:12	127-18-4	
Toluene	ND	ug/L	1.0	1		05/13/21 00:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/13/21 00:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/13/21 00:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/13/21 00:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/13/21 00:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/13/21 00:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/13/21 00:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/13/21 00:12	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/13/21 00:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/13/21 00:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/13/21 00:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		05/13/21 00:12	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/13/21 00:12	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		05/13/21 00:12	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/12/21 03:47	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		05/12/21 03:47	17060-07-0	
Toluene-d8 (S)	108	%	66-133	1		05/12/21 03:47	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: MW-40D	Lab ID: 92537976007	Collected: 05/09/21 13:05	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D						
		Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/13/21 00:30	67-64-1	
Benzene	ND	ug/L	1.0	1		05/13/21 00:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/13/21 00:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/13/21 00:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/13/21 00:30	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/13/21 00:30	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/13/21 00:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/13/21 00:30	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/13/21 00:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/13/21 00:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/13/21 00:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/13/21 00:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/13/21 00:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/13/21 00:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/13/21 00:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/13/21 00:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/13/21 00:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/13/21 00:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/13/21 00:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/13/21 00:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/13/21 00:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/13/21 00:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/13/21 00:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/13/21 00:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/13/21 00:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/13/21 00:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/13/21 00:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/13/21 00:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/13/21 00:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/13/21 00:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/13/21 00:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/13/21 00:30	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/13/21 00:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/13/21 00:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/13/21 00:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/13/21 00:30	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/13/21 00:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/13/21 00:30	108-10-1	
Methyl-tert-butyl ether	2.7	ug/L	1.0	1		05/13/21 00:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/13/21 00:30	91-20-3	
Styrene	ND	ug/L	1.0	1		05/13/21 00:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/13/21 00:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/13/21 00:30	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-40D	Lab ID: 92537976007	Collected: 05/09/21 13:05	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Tetrachloroethene	ND	ug/L	1.0	1		05/13/21 00:30	127-18-4	
Toluene	ND	ug/L	1.0	1		05/13/21 00:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/13/21 00:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/13/21 00:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/13/21 00:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/13/21 00:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/13/21 00:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/13/21 00:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/13/21 00:30	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/13/21 00:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/13/21 00:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/13/21 00:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/13/21 00:30	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/13/21 00:30	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/13/21 00:30	2037-26-5	
8260D MSV SIM								
Analytical Method: EPA 8260D Mod.								
Pace Analytical Services - Charlotte								
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/12/21 04:06	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		05/12/21 04:06	17060-07-0	
Toluene-d8 (S)	107	%	66-133	1		05/12/21 04:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-38R	Lab ID: 92537976008	Collected: 05/09/21 13:25	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/13/21 00:48	67-64-1	
Benzene	ND	ug/L	1.0	1		05/13/21 00:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/13/21 00:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/13/21 00:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/13/21 00:48	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/13/21 00:48	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/13/21 00:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/13/21 00:48	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/13/21 00:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/13/21 00:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/13/21 00:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/13/21 00:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/13/21 00:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/13/21 00:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/13/21 00:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/13/21 00:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/13/21 00:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/13/21 00:48	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/13/21 00:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/13/21 00:48	75-71-8	
1,1-Dichloroethane	5.5	ug/L	1.0	1		05/13/21 00:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/13/21 00:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/13/21 00:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/13/21 00:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/13/21 00:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/13/21 00:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/13/21 00:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/13/21 00:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/13/21 00:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/13/21 00:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/13/21 00:48	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/13/21 00:48	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/13/21 00:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/13/21 00:48	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/13/21 00:48	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/13/21 00:48	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/13/21 00:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/13/21 00:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/13/21 00:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/13/21 00:48	91-20-3	
Styrene	ND	ug/L	1.0	1		05/13/21 00:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/13/21 00:48	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/13/21 00:48	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-38R	Lab ID: 92537976008	Collected: 05/09/21 13:25	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Tetrachloroethene	ND	ug/L	1.0	1		05/13/21 00:48	127-18-4	
Toluene	ND	ug/L	1.0	1		05/13/21 00:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/13/21 00:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/13/21 00:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/13/21 00:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/13/21 00:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/13/21 00:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/13/21 00:48	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/13/21 00:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/13/21 00:48	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/13/21 00:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/13/21 00:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/13/21 00:48	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/13/21 00:48	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		05/13/21 00:48	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/13/21 00:48	2037-26-5	
8260D MSV SIM								
Analytical Method: EPA 8260D Mod.								
Pace Analytical Services - Charlotte								
1,4-Dioxane (p-Dioxane)	47.0	ug/L	2.0	1		05/12/21 04:25	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		05/12/21 04:25	17060-07-0	
Toluene-d8 (S)	108	%	66-133	1		05/12/21 04:25	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-44	Lab ID: 92537976009	Collected: 05/09/21 14:25	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 02:11	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 02:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 02:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 02:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 02:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 02:11	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 02:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 02:11	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 02:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 02:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 02:11	75-00-3	IK
Chloroform	ND	ug/L	5.0	1		05/12/21 02:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 02:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 02:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 02:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 02:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 02:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 02:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 02:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 02:11	75-71-8	
1,1-Dichloroethane	1.7	ug/L	1.0	1		05/12/21 02:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 02:11	107-06-2	
1,1-Dichloroethene	2.9	ug/L	1.0	1		05/12/21 02:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 02:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 02:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 02:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 02:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 02:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 02:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 02:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 02:11	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 02:11	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 02:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 02:11	87-68-3	v1
2-Hexanone	ND	ug/L	5.0	1		05/12/21 02:11	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 02:11	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 02:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 02:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 02:11	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 02:11	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 02:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 02:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 02:11	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-44	Lab ID: 92537976009	Collected: 05/09/21 14:25	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 02:11	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 02:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:11	120-82-1	
1,1,1-Trichloroethane	6.9	ug/L	1.0	1		05/12/21 02:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 02:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 02:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 02:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 02:11	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 02:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 02:11	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 02:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 02:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 02:11	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 02:11	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		05/12/21 02:11	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 02:11	2037-26-5	
8260D MSV SIM								
Analytical Method: EPA 8260D Mod.								
Pace Analytical Services - Charlotte								
1,4-Dioxane (p-Dioxane)	10.2	ug/L	2.0	1		05/12/21 04:44	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		05/12/21 04:44	17060-07-0	
Toluene-d8 (S)	107	%	66-133	1		05/12/21 04:44	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: MW-21D	Lab ID: 92537976010	Collected: 05/09/21 14:50	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 02:29	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 02:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 02:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 02:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 02:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 02:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 02:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 02:29	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 02:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 02:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 02:29	75-00-3	IK
Chloroform	ND	ug/L	5.0	1		05/12/21 02:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 02:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 02:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 02:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 02:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 02:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 02:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 02:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 02:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 02:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 02:29	107-06-2	
1,1-Dichloroethene	4.1	ug/L	1.0	1		05/12/21 02:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 02:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 02:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 02:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 02:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 02:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 02:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 02:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 02:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 02:29	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 02:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 02:29	87-68-3	v2
2-Hexanone	ND	ug/L	5.0	1		05/12/21 02:29	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 02:29	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 02:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 02:29	108-10-1	
Methyl-tert-butyl ether	2.6	ug/L	1.0	1		05/12/21 02:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 02:29	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 02:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 02:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 02:29	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-21D	Lab ID: 92537976010	Collected: 05/09/21 14:50	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 02:29	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 02:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 02:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 02:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 02:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 02:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 02:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 02:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 02:29	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 02:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 02:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 02:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		05/12/21 02:29	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/12/21 02:29	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/12/21 02:29	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	2.8	ug/L	2.0	1		05/12/21 05:03	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	83	%	70-130	1		05/12/21 05:03	17060-07-0	
Toluene-d8 (S)	107	%	66-133	1		05/12/21 05:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-41D	Lab ID: 92537976011	Collected: 05/09/21 15:05	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 02:47	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 02:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 02:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 02:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 02:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 02:47	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 02:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 02:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 02:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 02:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 02:47	75-00-3	IK
Chloroform	ND	ug/L	5.0	1		05/12/21 02:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 02:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 02:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 02:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 02:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 02:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 02:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 02:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 02:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 02:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 02:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 02:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 02:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 02:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 02:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 02:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 02:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 02:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 02:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 02:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 02:47	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 02:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 02:47	87-68-3	v2
2-Hexanone	ND	ug/L	5.0	1		05/12/21 02:47	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 02:47	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 02:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 02:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 02:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 02:47	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 02:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 02:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 02:47	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-41D **Lab ID: 92537976011** Collected: 05/09/21 15:05 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8260D MSV Low Level

Analytical Method: EPA 8260D
Pace Analytical Services - Charlotte

Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 02:47	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 02:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 02:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 02:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 02:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 02:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 02:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 02:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 02:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 02:47	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 02:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 02:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 02:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/12/21 02:47	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		05/12/21 02:47	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 02:47	2037-26-5	

8260D MSV SIM

Analytical Method: EPA 8260D Mod.
Pace Analytical Services - Charlotte

1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/12/21 05:22	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		05/12/21 05:22	17060-07-0	
Toluene-d8 (S)	108	%	66-133	1		05/12/21 05:22	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-1D	Lab ID: 92537976012	Collected: 05/09/21 15:50	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 03:05	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 03:05	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 03:05	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 03:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 03:05	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 03:05	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 03:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 03:05	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 03:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 03:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 03:05	75-00-3	IK
Chloroform	ND	ug/L	5.0	1		05/12/21 03:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 03:05	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 03:05	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 03:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 03:05	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 03:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 03:05	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 03:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 03:05	75-71-8	
1,1-Dichloroethane	1.8	ug/L	1.0	1		05/12/21 03:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 03:05	107-06-2	
1,1-Dichloroethene	12.2	ug/L	1.0	1		05/12/21 03:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 03:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 03:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 03:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 03:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 03:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 03:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 03:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 03:05	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 03:05	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 03:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 03:05	87-68-3	v2
2-Hexanone	ND	ug/L	5.0	1		05/12/21 03:05	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 03:05	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 03:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 03:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 03:05	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 03:05	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 03:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 03:05	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 03:05	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: MW-1D		Lab ID: 92537976012		Collected: 05/09/21 15:50		Received: 05/11/21 11:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 03:05	127-18-4		
Toluene	ND	ug/L	1.0	1		05/12/21 03:05	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:05	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:05	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 03:05	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 03:05	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		05/12/21 03:05	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 03:05	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 03:05	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 03:05	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 03:05	75-01-4		
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 03:05	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 03:05	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		05/12/21 03:05	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130	1		05/12/21 03:05	460-00-4		
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/12/21 03:05	17060-07-0		
Toluene-d8 (S)	101	%	70-130	1		05/12/21 03:05	2037-26-5		
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	9.0	ug/L	2.0	1		05/12/21 05:41	123-91-1		
Surrogates									
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		05/12/21 05:41	17060-07-0		
Toluene-d8 (S)	108	%	66-133	1		05/12/21 05:41	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: MW-1	Lab ID: 92537976013	Collected: 05/09/21 16:00	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 03:24	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 03:24	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 03:24	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 03:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 03:24	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 03:24	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 03:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 03:24	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 03:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 03:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 03:24	75-00-3	IK
Chloroform	ND	ug/L	5.0	1		05/12/21 03:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 03:24	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 03:24	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 03:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 03:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 03:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 03:24	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 03:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 03:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 03:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 03:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 03:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 03:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 03:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 03:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 03:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 03:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 03:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 03:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 03:24	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 03:24	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 03:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 03:24	87-68-3	v2
2-Hexanone	ND	ug/L	5.0	1		05/12/21 03:24	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 03:24	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 03:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 03:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 03:24	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 03:24	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 03:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 03:24	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 03:24	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-1	Lab ID: 92537976013	Collected: 05/09/21 16:00	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 03:24	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 03:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 03:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 03:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 03:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 03:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 03:24	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 03:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 03:24	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 03:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 03:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 03:24	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 03:24	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		05/12/21 03:24	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		05/12/21 03:24	2037-26-5	
8260D MSV SIM								
Analytical Method: EPA 8260D Mod.								
Pace Analytical Services - Charlotte								
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/12/21 06:00	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		05/12/21 06:00	17060-07-0	
Toluene-d8 (S)	106	%	66-133	1		05/12/21 06:00	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: MW-22D	Lab ID: 92537976014	Collected: 05/09/21 16:20	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 03:42	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 03:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 03:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 03:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 03:42	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 03:42	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 03:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 03:42	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 03:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 03:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 03:42	75-00-3	IK
Chloroform	ND	ug/L	5.0	1		05/12/21 03:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 03:42	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 03:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 03:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 03:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 03:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 03:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 03:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 03:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 03:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 03:42	107-06-2	
1,1-Dichloroethene	5.9	ug/L	1.0	1		05/12/21 03:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 03:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 03:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 03:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 03:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 03:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 03:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 03:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 03:42	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 03:42	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 03:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 03:42	87-68-3	v2
2-Hexanone	ND	ug/L	5.0	1		05/12/21 03:42	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 03:42	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 03:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 03:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 03:42	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 03:42	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 03:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 03:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 03:42	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-22D **Lab ID: 92537976014** Collected: 05/09/21 16:20 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8260D MSV Low Level

Analytical Method: EPA 8260D
Pace Analytical Services - Charlotte

Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 03:42	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 03:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 03:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 03:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 03:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 03:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 03:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 03:42	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 03:42	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 03:42	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 03:42	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 03:42	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 03:42	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 03:42	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		05/12/21 03:42	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		05/12/21 03:42	2037-26-5	

8260D MSV SIM

Analytical Method: EPA 8260D Mod.
Pace Analytical Services - Charlotte

1,4-Dioxane (p-Dioxane)	4.0	ug/L	2.0	1		05/12/21 06:19	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		05/12/21 06:19	17060-07-0	
Toluene-d8 (S)	108	%	66-133	1		05/12/21 06:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: MW-20	Lab ID: 92537976015	Collected: 05/09/21 16:40	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	50.0	2		05/13/21 17:39	67-64-1	v1
Benzene	ND	ug/L	2.0	2		05/13/21 17:39	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		05/13/21 17:39	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		05/13/21 17:39	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		05/13/21 17:39	75-27-4	
Bromoform	ND	ug/L	2.0	2		05/13/21 17:39	75-25-2	
Bromomethane	ND	ug/L	4.0	2		05/13/21 17:39	74-83-9	IK
2-Butanone (MEK)	ND	ug/L	10.0	2		05/13/21 17:39	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		05/13/21 17:39	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		05/13/21 17:39	108-90-7	
Chloroethane	ND	ug/L	2.0	2		05/13/21 17:39	75-00-3	
Chloroform	ND	ug/L	10.0	2		05/13/21 17:39	67-66-3	
Chloromethane	ND	ug/L	2.0	2		05/13/21 17:39	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		05/13/21 17:39	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		05/13/21 17:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2		05/13/21 17:39	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		05/13/21 17:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		05/13/21 17:39	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		05/13/21 17:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		05/13/21 17:39	75-71-8	
1,1-Dichloroethane	214	ug/L	2.0	2		05/13/21 17:39	75-34-3	
1,2-Dichloroethane	7.5	ug/L	2.0	2		05/13/21 17:39	107-06-2	
1,1-Dichloroethene	267	ug/L	2.0	2		05/13/21 17:39	75-35-4	
cis-1,2-Dichloroethene	2.2	ug/L	2.0	2		05/13/21 17:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		05/13/21 17:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		05/13/21 17:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		05/13/21 17:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		05/13/21 17:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		05/13/21 17:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		05/13/21 17:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		05/13/21 17:39	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		05/13/21 17:39	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		05/13/21 17:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	2		05/13/21 17:39	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		05/13/21 17:39	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		05/13/21 17:39	99-87-6	
Methylene Chloride	ND	ug/L	10.0	2		05/13/21 17:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		05/13/21 17:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		05/13/21 17:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		05/13/21 17:39	91-20-3	
Styrene	ND	ug/L	2.0	2		05/13/21 17:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		05/13/21 17:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		05/13/21 17:39	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-20	Lab ID: 92537976015	Collected: 05/09/21 16:40	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Tetrachloroethene	ND	ug/L	2.0	2		05/13/21 17:39	127-18-4	
Toluene	ND	ug/L	2.0	2		05/13/21 17:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		05/13/21 17:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		05/13/21 17:39	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		05/13/21 17:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		05/13/21 17:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		05/13/21 17:39	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		05/13/21 17:39	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		05/13/21 17:39	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		05/13/21 17:39	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		05/13/21 17:39	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		05/13/21 17:39	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	2		05/13/21 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	2		05/13/21 17:39	17060-07-0	
Toluene-d8 (S)	98	%	70-130	2		05/13/21 17:39	2037-26-5	
8260D MSV SIM								
Analytical Method: EPA 8260D Mod.								
Pace Analytical Services - Charlotte								
1,4-Dioxane (p-Dioxane)	1010	ug/L	40.0	20		05/12/21 14:29	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	110	%	70-130	20		05/12/21 14:29	17060-07-0	
Toluene-d8 (S)	94	%	66-133	20		05/12/21 14:29	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: DUP-20210509A	Lab ID: 92537976016	Collected: 05/09/21 08:00	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	62.5	2.5		05/13/21 18:33	67-64-1	v1
Benzene	ND	ug/L	2.5	2.5		05/13/21 18:33	71-43-2	
Bromobenzene	ND	ug/L	2.5	2.5		05/13/21 18:33	108-86-1	
Bromochloromethane	ND	ug/L	2.5	2.5		05/13/21 18:33	74-97-5	
Bromodichloromethane	ND	ug/L	2.5	2.5		05/13/21 18:33	75-27-4	
Bromoform	ND	ug/L	2.5	2.5		05/13/21 18:33	75-25-2	
Bromomethane	ND	ug/L	5.0	2.5		05/13/21 18:33	74-83-9	IK
2-Butanone (MEK)	ND	ug/L	12.5	2.5		05/13/21 18:33	78-93-3	
Carbon tetrachloride	ND	ug/L	2.5	2.5		05/13/21 18:33	56-23-5	
Chlorobenzene	ND	ug/L	2.5	2.5		05/13/21 18:33	108-90-7	
Chloroethane	ND	ug/L	2.5	2.5		05/13/21 18:33	75-00-3	
Chloroform	ND	ug/L	12.5	2.5		05/13/21 18:33	67-66-3	
Chloromethane	ND	ug/L	2.5	2.5		05/13/21 18:33	74-87-3	
2-Chlorotoluene	ND	ug/L	2.5	2.5		05/13/21 18:33	95-49-8	
4-Chlorotoluene	ND	ug/L	2.5	2.5		05/13/21 18:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5		05/13/21 18:33	96-12-8	
Dibromochloromethane	ND	ug/L	2.5	2.5		05/13/21 18:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.5	2.5		05/13/21 18:33	106-93-4	
Dibromomethane	ND	ug/L	2.5	2.5		05/13/21 18:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.5	2.5		05/13/21 18:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.5	2.5		05/13/21 18:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.5	2.5		05/13/21 18:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.5	2.5		05/13/21 18:33	75-71-8	
1,1-Dichloroethane	207	ug/L	2.5	2.5		05/13/21 18:33	75-34-3	
1,2-Dichloroethane	7.9	ug/L	2.5	2.5		05/13/21 18:33	107-06-2	
1,1-Dichloroethene	262	ug/L	2.5	2.5		05/13/21 18:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.5	2.5		05/13/21 18:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.5	2.5		05/13/21 18:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.5	2.5		05/13/21 18:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.5	2.5		05/13/21 18:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.5	2.5		05/13/21 18:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.5	2.5		05/13/21 18:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.5	2.5		05/13/21 18:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	2.5		05/13/21 18:33	10061-02-6	
Diisopropyl ether	ND	ug/L	2.5	2.5		05/13/21 18:33	108-20-3	
Ethylbenzene	ND	ug/L	2.5	2.5		05/13/21 18:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	2.5		05/13/21 18:33	87-68-3	
2-Hexanone	ND	ug/L	12.5	2.5		05/13/21 18:33	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.5	2.5		05/13/21 18:33	99-87-6	
Methylene Chloride	ND	ug/L	12.5	2.5		05/13/21 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	12.5	2.5		05/13/21 18:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.5	2.5		05/13/21 18:33	1634-04-4	
Naphthalene	ND	ug/L	2.5	2.5		05/13/21 18:33	91-20-3	
Styrene	ND	ug/L	2.5	2.5		05/13/21 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	2.5		05/13/21 18:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	2.5		05/13/21 18:33	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: DUP-20210509A **Lab ID: 92537976016** Collected: 05/09/21 08:00 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8260D MSV Low Level

Analytical Method: EPA 8260D
Pace Analytical Services - Charlotte

Tetrachloroethene	ND	ug/L	2.5	2.5		05/13/21 18:33	127-18-4	
Toluene	ND	ug/L	2.5	2.5		05/13/21 18:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.5	2.5		05/13/21 18:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.5	2.5		05/13/21 18:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.5	2.5		05/13/21 18:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.5	2.5		05/13/21 18:33	79-00-5	
Trichloroethene	ND	ug/L	2.5	2.5		05/13/21 18:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.5	2.5		05/13/21 18:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	2.5		05/13/21 18:33	96-18-4	
Vinyl acetate	ND	ug/L	5.0	2.5		05/13/21 18:33	108-05-4	
Vinyl chloride	ND	ug/L	2.5	2.5		05/13/21 18:33	75-01-4	
Xylene (Total)	ND	ug/L	2.5	2.5		05/13/21 18:33	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	2.5		05/13/21 18:33	179601-23-1	
o-Xylene	ND	ug/L	2.5	2.5		05/13/21 18:33	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	2.5		05/13/21 18:33	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	2.5		05/13/21 18:33	17060-07-0	
Toluene-d8 (S)	104	%	70-130	2.5		05/13/21 18:33	2037-26-5	

8260D MSV SIM

Analytical Method: EPA 8260D Mod.
Pace Analytical Services - Charlotte

1,4-Dioxane (p-Dioxane)	955	ug/L	40.0	20		05/12/21 14:49	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	70-130	20		05/12/21 14:49	17060-07-0	
Toluene-d8 (S)	93	%	66-133	20		05/12/21 14:49	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: MW-4	Lab ID: 92537976017	Collected: 05/09/21 16:55	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	62.5	2.5		05/15/21 01:10	67-64-1	
Benzene	ND	ug/L	2.5	2.5		05/15/21 01:10	71-43-2	
Bromobenzene	ND	ug/L	2.5	2.5		05/15/21 01:10	108-86-1	
Bromochloromethane	ND	ug/L	2.5	2.5		05/15/21 01:10	74-97-5	IK
Bromodichloromethane	ND	ug/L	2.5	2.5		05/15/21 01:10	75-27-4	
Bromoform	ND	ug/L	2.5	2.5		05/15/21 01:10	75-25-2	
Bromomethane	ND	ug/L	5.0	2.5		05/15/21 01:10	74-83-9	IH,v1
2-Butanone (MEK)	ND	ug/L	12.5	2.5		05/15/21 01:10	78-93-3	
Carbon tetrachloride	ND	ug/L	2.5	2.5		05/15/21 01:10	56-23-5	
Chlorobenzene	ND	ug/L	2.5	2.5		05/15/21 01:10	108-90-7	
Chloroethane	ND	ug/L	2.5	2.5		05/15/21 01:10	75-00-3	
Chloroform	ND	ug/L	12.5	2.5		05/15/21 01:10	67-66-3	
Chloromethane	ND	ug/L	2.5	2.5		05/15/21 01:10	74-87-3	
2-Chlorotoluene	ND	ug/L	2.5	2.5		05/15/21 01:10	95-49-8	
4-Chlorotoluene	ND	ug/L	2.5	2.5		05/15/21 01:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5		05/15/21 01:10	96-12-8	
Dibromochloromethane	ND	ug/L	2.5	2.5		05/15/21 01:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.5	2.5		05/15/21 01:10	106-93-4	
Dibromomethane	ND	ug/L	2.5	2.5		05/15/21 01:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.5	2.5		05/15/21 01:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.5	2.5		05/15/21 01:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.5	2.5		05/15/21 01:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.5	2.5		05/15/21 01:10	75-71-8	
1,1-Dichloroethane	130	ug/L	2.5	2.5		05/15/21 01:10	75-34-3	
1,2-Dichloroethane	2.9	ug/L	2.5	2.5		05/15/21 01:10	107-06-2	
1,1-Dichloroethene	361	ug/L	2.5	2.5		05/15/21 01:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.5	2.5		05/15/21 01:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.5	2.5		05/15/21 01:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.5	2.5		05/15/21 01:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.5	2.5		05/15/21 01:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.5	2.5		05/15/21 01:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.5	2.5		05/15/21 01:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.5	2.5		05/15/21 01:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	2.5		05/15/21 01:10	10061-02-6	
Diisopropyl ether	ND	ug/L	2.5	2.5		05/15/21 01:10	108-20-3	
Ethylbenzene	ND	ug/L	2.5	2.5		05/15/21 01:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	2.5		05/15/21 01:10	87-68-3	
2-Hexanone	ND	ug/L	12.5	2.5		05/15/21 01:10	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.5	2.5		05/15/21 01:10	99-87-6	
Methylene Chloride	ND	ug/L	12.5	2.5		05/15/21 01:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	12.5	2.5		05/15/21 01:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.5	2.5		05/15/21 01:10	1634-04-4	
Naphthalene	ND	ug/L	2.5	2.5		05/15/21 01:10	91-20-3	
Styrene	ND	ug/L	2.5	2.5		05/15/21 01:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	2.5		05/15/21 01:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	2.5		05/15/21 01:10	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-4	Lab ID: 92537976017	Collected: 05/09/21 16:55	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	2.5	2.5		05/15/21 01:10	127-18-4	
Toluene	ND	ug/L	2.5	2.5		05/15/21 01:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.5	2.5		05/15/21 01:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.5	2.5		05/15/21 01:10	120-82-1	
1,1,1-Trichloroethane	3.4	ug/L	2.5	2.5		05/15/21 01:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.5	2.5		05/15/21 01:10	79-00-5	
Trichloroethene	ND	ug/L	2.5	2.5		05/15/21 01:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.5	2.5		05/15/21 01:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	2.5		05/15/21 01:10	96-18-4	
Vinyl acetate	ND	ug/L	5.0	2.5		05/15/21 01:10	108-05-4	
Vinyl chloride	ND	ug/L	2.5	2.5		05/15/21 01:10	75-01-4	
Xylene (Total)	ND	ug/L	2.5	2.5		05/15/21 01:10	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	2.5		05/15/21 01:10	179601-23-1	
o-Xylene	ND	ug/L	2.5	2.5		05/15/21 01:10	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	2.5		05/15/21 01:10	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130	2.5		05/15/21 01:10	17060-07-0	
Toluene-d8 (S)	106	%	70-130	2.5		05/15/21 01:10	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	303	ug/L	10.0	5		05/12/21 15:09	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	70-130	5		05/12/21 15:09	17060-07-0	
Toluene-d8 (S)	93	%	66-133	5		05/12/21 15:09	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: MW-9	Lab ID: 92537976018	Collected: 05/09/21 17:05	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 04:54	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 04:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 04:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 04:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 04:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 04:54	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 04:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 04:54	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 04:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 04:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 04:54	75-00-3	IK
Chloroform	ND	ug/L	5.0	1		05/12/21 04:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 04:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 04:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 04:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 04:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 04:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 04:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 04:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 04:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 04:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 04:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 04:54	75-71-8	
1,1-Dichloroethane	3.0	ug/L	1.0	1		05/12/21 04:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 04:54	107-06-2	
1,1-Dichloroethene	56.3	ug/L	1.0	1		05/12/21 04:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 04:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 04:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 04:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 04:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 04:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 04:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 04:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 04:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 04:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 04:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 04:54	87-68-3	v2
2-Hexanone	ND	ug/L	5.0	1		05/12/21 04:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 04:54	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 04:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 04:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 04:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 04:54	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 04:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 04:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 04:54	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-9	Lab ID: 92537976018	Collected: 05/09/21 17:05	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 04:54	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 04:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 04:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 04:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 04:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 04:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 04:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 04:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 04:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 04:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 04:54	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 04:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 04:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 04:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/12/21 04:54	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/12/21 04:54	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 04:54	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	23.6	ug/L	2.0	1		05/12/21 07:35	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		05/12/21 07:35	17060-07-0	
Toluene-d8 (S)	107	%	66-133	1		05/12/21 07:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-23D	Lab ID: 92537976019	Collected: 05/09/21 17:15	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 05:12	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 05:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 05:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 05:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 05:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 05:12	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 05:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 05:12	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 05:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 05:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 05:12	75-00-3	IK
Chloroform	ND	ug/L	5.0	1		05/12/21 05:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 05:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 05:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 05:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 05:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 05:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 05:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 05:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 05:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 05:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 05:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 05:12	75-71-8	
1,1-Dichloroethane	31.8	ug/L	1.0	1		05/12/21 05:12	75-34-3	
1,2-Dichloroethane	1.5	ug/L	1.0	1		05/12/21 05:12	107-06-2	
1,1-Dichloroethene	126	ug/L	1.0	1		05/12/21 05:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 05:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 05:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 05:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 05:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 05:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 05:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 05:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 05:12	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 05:12	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 05:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 05:12	87-68-3	v2
2-Hexanone	ND	ug/L	5.0	1		05/12/21 05:12	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 05:12	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 05:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 05:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 05:12	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 05:12	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 05:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 05:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 05:12	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-23D	Lab ID: 92537976019	Collected: 05/09/21 17:15	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 05:12	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 05:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 05:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 05:12	120-82-1	
1,1,1-Trichloroethane	11.7	ug/L	1.0	1		05/12/21 05:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 05:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 05:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 05:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 05:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 05:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 05:12	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 05:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 05:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 05:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 05:12	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/12/21 05:12	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 05:12	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	99.0	ug/L	2.0	1		05/12/21 07:54	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		05/12/21 07:54	17060-07-0	
Toluene-d8 (S)	105	%	66-133	1		05/12/21 07:54	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-16	Lab ID: 92537976020	Collected: 05/09/21 17:50	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	50.0	2		05/13/21 17:57	67-64-1	v1
Benzene	ND	ug/L	2.0	2		05/13/21 17:57	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		05/13/21 17:57	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		05/13/21 17:57	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		05/13/21 17:57	75-27-4	
Bromoform	ND	ug/L	2.0	2		05/13/21 17:57	75-25-2	
Bromomethane	ND	ug/L	4.0	2		05/13/21 17:57	74-83-9	IK
2-Butanone (MEK)	24.6	ug/L	10.0	2		05/13/21 17:57	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		05/13/21 17:57	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		05/13/21 17:57	108-90-7	
Chloroethane	4.2	ug/L	2.0	2		05/13/21 17:57	75-00-3	
Chloroform	ND	ug/L	10.0	2		05/13/21 17:57	67-66-3	
Chloromethane	ND	ug/L	2.0	2		05/13/21 17:57	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		05/13/21 17:57	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		05/13/21 17:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2		05/13/21 17:57	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		05/13/21 17:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		05/13/21 17:57	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		05/13/21 17:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		05/13/21 17:57	75-71-8	
1,1-Dichloroethane	169	ug/L	2.0	2		05/13/21 17:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		05/13/21 17:57	107-06-2	
1,1-Dichloroethene	276	ug/L	2.0	2		05/13/21 17:57	75-35-4	
cis-1,2-Dichloroethene	2.1	ug/L	2.0	2		05/13/21 17:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		05/13/21 17:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		05/13/21 17:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		05/13/21 17:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		05/13/21 17:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		05/13/21 17:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		05/13/21 17:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		05/13/21 17:57	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		05/13/21 17:57	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		05/13/21 17:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	2		05/13/21 17:57	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		05/13/21 17:57	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		05/13/21 17:57	99-87-6	
Methylene Chloride	ND	ug/L	10.0	2		05/13/21 17:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		05/13/21 17:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		05/13/21 17:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		05/13/21 17:57	91-20-3	
Styrene	ND	ug/L	2.0	2		05/13/21 17:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		05/13/21 17:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		05/13/21 17:57	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-16	Lab ID: 92537976020	Collected: 05/09/21 17:50	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	2.2	ug/L	2.0	2		05/13/21 17:57	127-18-4	
Toluene	ND	ug/L	2.0	2		05/13/21 17:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:57	120-82-1	
1,1,1-Trichloroethane	123	ug/L	2.0	2		05/13/21 17:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		05/13/21 17:57	79-00-5	
Trichloroethene	6.2	ug/L	2.0	2		05/13/21 17:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		05/13/21 17:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		05/13/21 17:57	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		05/13/21 17:57	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		05/13/21 17:57	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		05/13/21 17:57	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		05/13/21 17:57	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		05/13/21 17:57	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	2		05/13/21 17:57	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	2		05/13/21 17:57	17060-07-0	
Toluene-d8 (S)	100	%	70-130	2		05/13/21 17:57	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	19.3	ug/L	2.0	1		05/12/21 08:13	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		05/12/21 08:13	17060-07-0	
Toluene-d8 (S)	104	%	66-133	1		05/12/21 08:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-16D	Lab ID: 92537976021	Collected: 05/09/21 18:00	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 05:48	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 05:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 05:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 05:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 05:48	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 05:48	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 05:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 05:48	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 05:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 05:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 05:48	75-00-3	IK
Chloroform	ND	ug/L	5.0	1		05/12/21 05:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 05:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 05:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 05:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 05:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 05:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 05:48	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 05:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 05:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 05:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 05:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 05:48	75-71-8	
1,1-Dichloroethane	27.7	ug/L	1.0	1		05/12/21 05:48	75-34-3	
1,2-Dichloroethane	1.7	ug/L	1.0	1		05/12/21 05:48	107-06-2	
1,1-Dichloroethene	130	ug/L	1.0	1		05/12/21 05:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 05:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 05:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 05:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 05:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 05:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 05:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 05:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 05:48	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 05:48	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 05:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 05:48	87-68-3	v2
2-Hexanone	ND	ug/L	5.0	1		05/12/21 05:48	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 05:48	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 05:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 05:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 05:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 05:48	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 05:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 05:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 05:48	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: MW-16D	Lab ID: 92537976021	Collected: 05/09/21 18:00	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 05:48	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 05:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 05:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 05:48	120-82-1	
1,1,1-Trichloroethane	9.5	ug/L	1.0	1		05/12/21 05:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 05:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 05:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 05:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 05:48	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 05:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 05:48	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 05:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 05:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 05:48	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/12/21 05:48	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/12/21 05:48	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		05/12/21 05:48	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	107	ug/L	4.0	2		05/12/21 15:28	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	70-130	2		05/12/21 15:28	17060-07-0	
Toluene-d8 (S)	93	%	66-133	2		05/12/21 15:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Sample: DUP-20210509B	Lab ID: 92537976022	Collected: 05/09/21 09:00	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 06:07	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 06:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 06:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 06:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 06:07	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 06:07	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 06:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 06:07	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 06:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 06:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 06:07	75-00-3	IK
Chloroform	ND	ug/L	5.0	1		05/12/21 06:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 06:07	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 06:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 06:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 06:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 06:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 06:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 06:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 06:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 06:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 06:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 06:07	75-71-8	
1,1-Dichloroethane	26.4	ug/L	1.0	1		05/12/21 06:07	75-34-3	
1,2-Dichloroethane	1.6	ug/L	1.0	1		05/12/21 06:07	107-06-2	
1,1-Dichloroethene	117	ug/L	1.0	1		05/12/21 06:07	75-35-4	M1
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 06:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 06:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 06:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 06:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 06:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 06:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 06:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 06:07	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 06:07	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 06:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 06:07	87-68-3	v2
2-Hexanone	ND	ug/L	5.0	1		05/12/21 06:07	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 06:07	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 06:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 06:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 06:07	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 06:07	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 06:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 06:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 06:07	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: DUP-20210509B	Lab ID: 92537976022	Collected: 05/09/21 09:00	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 06:07	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 06:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 06:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 06:07	120-82-1	
1,1,1-Trichloroethane	8.7	ug/L	1.0	1		05/12/21 06:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 06:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 06:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 06:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 06:07	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 06:07	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 06:07	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 06:07	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 06:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 06:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		05/12/21 06:07	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/12/21 06:07	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 06:07	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	111	ug/L	4.0	2		05/12/21 15:48	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	70-130	2		05/12/21 15:48	17060-07-0	
Toluene-d8 (S)	93	%	66-133	2		05/12/21 15:48	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: TRIP BLANK A	Lab ID: 92537976023	Collected: 05/09/21 00:00	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 01:53	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 01:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 01:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 01:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 01:53	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 01:53	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 01:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 01:53	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 01:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 01:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 01:53	75-00-3	IK
Chloroform	ND	ug/L	5.0	1		05/12/21 01:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 01:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 01:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 01:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 01:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 01:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 01:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 01:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 01:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 01:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 01:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 01:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 01:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 01:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 01:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 01:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 01:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 01:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 01:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 01:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 01:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 01:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 01:53	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 01:53	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 01:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 01:53	87-68-3	v2
2-Hexanone	ND	ug/L	5.0	1		05/12/21 01:53	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 01:53	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 01:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 01:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 01:53	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 01:53	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 01:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 01:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 01:53	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Sample: TRIP BLANK A		Lab ID: 92537976023	Collected: 05/09/21 00:00	Received: 05/11/21 11:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 01:53	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 01:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 01:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 01:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 01:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 01:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 01:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 01:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 01:53	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 01:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 01:53	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 01:53	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 01:53	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 01:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		05/12/21 01:53	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		05/12/21 01:53	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 01:53	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/12/21 09:48	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		05/12/21 09:48	17060-07-0	
Toluene-d8 (S)	107	%	66-133	1		05/12/21 09:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

QC Batch: 619721 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92537976001, 92537976002, 92537976003, 92537976004, 92537976005, 92537976006, 92537976007, 92537976008

METHOD BLANK: 3260481 Matrix: Water
Associated Lab Samples: 92537976001, 92537976002, 92537976003, 92537976004, 92537976005, 92537976006, 92537976007, 92537976008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/12/21 17:16	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/12/21 17:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/12/21 17:16	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/12/21 17:16	
1,1-Dichloroethane	ug/L	ND	1.0	05/12/21 17:16	
1,1-Dichloroethene	ug/L	ND	1.0	05/12/21 17:16	
1,1-Dichloropropene	ug/L	ND	1.0	05/12/21 17:16	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/12/21 17:16	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/12/21 17:16	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/12/21 17:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/12/21 17:16	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/12/21 17:16	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/12/21 17:16	
1,2-Dichloroethane	ug/L	ND	1.0	05/12/21 17:16	
1,2-Dichloropropane	ug/L	ND	1.0	05/12/21 17:16	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/12/21 17:16	
1,3-Dichloropropane	ug/L	ND	1.0	05/12/21 17:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/12/21 17:16	
2,2-Dichloropropane	ug/L	ND	1.0	05/12/21 17:16	
2-Butanone (MEK)	ug/L	ND	5.0	05/12/21 17:16	
2-Chlorotoluene	ug/L	ND	1.0	05/12/21 17:16	
2-Hexanone	ug/L	ND	5.0	05/12/21 17:16	
4-Chlorotoluene	ug/L	ND	1.0	05/12/21 17:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/12/21 17:16	
Acetone	ug/L	ND	25.0	05/12/21 17:16	
Benzene	ug/L	ND	1.0	05/12/21 17:16	
Bromobenzene	ug/L	ND	1.0	05/12/21 17:16	
Bromochloromethane	ug/L	ND	1.0	05/12/21 17:16	
Bromodichloromethane	ug/L	ND	1.0	05/12/21 17:16	
Bromoform	ug/L	ND	1.0	05/12/21 17:16	
Bromomethane	ug/L	ND	2.0	05/12/21 17:16	
Carbon tetrachloride	ug/L	ND	1.0	05/12/21 17:16	
Chlorobenzene	ug/L	ND	1.0	05/12/21 17:16	
Chloroethane	ug/L	ND	1.0	05/12/21 17:16	
Chloroform	ug/L	ND	5.0	05/12/21 17:16	
Chloromethane	ug/L	ND	1.0	05/12/21 17:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/12/21 17:16	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/12/21 17:16	
Dibromochloromethane	ug/L	ND	1.0	05/12/21 17:16	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

METHOD BLANK: 3260481

Matrix: Water

Associated Lab Samples: 92537976001, 92537976002, 92537976003, 92537976004, 92537976005, 92537976006, 92537976007, 92537976008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	05/12/21 17:16	
Dichlorodifluoromethane	ug/L	ND	1.0	05/12/21 17:16	
Diisopropyl ether	ug/L	ND	1.0	05/12/21 17:16	
Ethylbenzene	ug/L	ND	1.0	05/12/21 17:16	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	05/12/21 17:16	
m&p-Xylene	ug/L	ND	2.0	05/12/21 17:16	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/12/21 17:16	
Methylene Chloride	ug/L	ND	5.0	05/12/21 17:16	
Naphthalene	ug/L	ND	1.0	05/12/21 17:16	
o-Xylene	ug/L	ND	1.0	05/12/21 17:16	
p-Isopropyltoluene	ug/L	ND	1.0	05/12/21 17:16	
Styrene	ug/L	ND	1.0	05/12/21 17:16	
Tetrachloroethene	ug/L	ND	1.0	05/12/21 17:16	
Toluene	ug/L	ND	1.0	05/12/21 17:16	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/12/21 17:16	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/12/21 17:16	
Trichloroethene	ug/L	ND	1.0	05/12/21 17:16	
Trichlorofluoromethane	ug/L	ND	1.0	05/12/21 17:16	
Vinyl acetate	ug/L	ND	2.0	05/12/21 17:16	
Vinyl chloride	ug/L	ND	1.0	05/12/21 17:16	
Xylene (Total)	ug/L	ND	1.0	05/12/21 17:16	
1,2-Dichloroethane-d4 (S)	%	107	70-130	05/12/21 17:16	
4-Bromofluorobenzene (S)	%	100	70-130	05/12/21 17:16	
Toluene-d8 (S)	%	101	70-130	05/12/21 17:16	

LABORATORY CONTROL SAMPLE: 3260482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	70-130	
1,1,1-Trichloroethane	ug/L	50	50.2	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.3	103	70-130	
1,1,2-Trichloroethane	ug/L	50	49.9	100	70-130	
1,1-Dichloroethane	ug/L	50	50.2	100	70-130	
1,1-Dichloroethene	ug/L	50	54.2	108	70-132	
1,1-Dichloropropene	ug/L	50	50.8	102	70-131	
1,2,3-Trichlorobenzene	ug/L	50	52.0	104	70-134	
1,2,3-Trichloropropane	ug/L	50	50.7	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.5	101	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	50.5	101	70-130	
1,2-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,2-Dichloroethane	ug/L	50	50.5	101	70-130	
1,2-Dichloropropane	ug/L	50	52.3	105	70-130	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

LABORATORY CONTROL SAMPLE: 3260482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,3-Dichloropropane	ug/L	50	50.7	101	70-130	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
2,2-Dichloropropane	ug/L	50	50.5	101	70-130	
2-Butanone (MEK)	ug/L	100	97.0	97	70-133	
2-Chlorotoluene	ug/L	50	51.1	102	70-130	
2-Hexanone	ug/L	100	104	104	70-130	
4-Chlorotoluene	ug/L	50	49.4	99	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-130	
Acetone	ug/L	100	108	108	70-144	
Benzene	ug/L	50	50.1	100	70-130	
Bromobenzene	ug/L	50	50.3	101	70-130	
Bromochloromethane	ug/L	50	51.9	104	70-130	
Bromodichloromethane	ug/L	50	51.7	103	70-130	
Bromoform	ug/L	50	49.8	100	70-131	
Bromomethane	ug/L	50	58.2	116	30-177	
Carbon tetrachloride	ug/L	50	51.8	104	70-130	
Chlorobenzene	ug/L	50	51.0	102	70-130	
Chloroethane	ug/L	50	42.5	85	46-131	
Chloroform	ug/L	50	52.1	104	70-130	
Chloromethane	ug/L	50	47.6	95	49-130	
cis-1,2-Dichloroethene	ug/L	50	50.8	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.8	102	70-130	
Dibromochloromethane	ug/L	50	50.7	101	70-130	
Dibromomethane	ug/L	50	49.9	100	70-130	
Dichlorodifluoromethane	ug/L	50	46.7	93	52-134	
Diisopropyl ether	ug/L	50	48.5	97	70-131	
Ethylbenzene	ug/L	50	50.9	102	70-130	
Hexachloro-1,3-butadiene	ug/L	50	53.4	107	70-131	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	47.5	95	70-130	
Methylene Chloride	ug/L	50	49.4	99	68-130	
Naphthalene	ug/L	50	49.6	99	70-133	
o-Xylene	ug/L	50	50.5	101	70-130	
p-Isopropyltoluene	ug/L	50	50.4	101	70-130	
Styrene	ug/L	50	51.5	103	70-130	
Tetrachloroethene	ug/L	50	50.1	100	70-130	
Toluene	ug/L	50	50.1	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.1	102	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.9	102	70-130	
Trichloroethene	ug/L	50	50.7	101	70-130	
Trichlorofluoromethane	ug/L	50	56.5	113	61-130	
Vinyl acetate	ug/L	100	106	106	70-140	
Vinyl chloride	ug/L	50	47.5	95	59-142	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

LABORATORY CONTROL SAMPLE: 3260482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3260483 3260484

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92537976008 Result	Spike Conc.	Spike Conc.	Result							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.5	21.6	113	108	70-135	4	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.7	23.7	123	119	70-148	4	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.8	21.8	114	109	70-131	5	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.9	22.2	114	111	70-136	3	30	
1,1-Dichloroethane	ug/L	5.5	20	20	29.7	28.4	121	115	70-147	4	30	
1,1-Dichloroethene	ug/L	ND	20	20	26.1	25.6	131	128	70-158	2	30	
1,1-Dichloropropene	ug/L	ND	20	20	24.4	23.5	122	117	70-149	4	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.6	22.2	113	111	68-140	2	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	22.5	22.0	113	110	67-137	3	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.8	22.2	114	111	70-139	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.3	21.4	106	107	69-136	1	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.6	21.9	113	109	70-137	3	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	22.8	21.8	114	109	70-133	5	30	
1,2-Dichloroethane	ug/L	ND	20	20	23.7	22.7	118	114	67-138	4	30	
1,2-Dichloropropane	ug/L	ND	20	20	24.5	24.0	123	120	70-138	2	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.1	22.2	116	111	70-133	4	30	
1,3-Dichloropropane	ug/L	ND	20	20	22.8	22.1	114	110	70-136	3	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	23.6	22.8	118	114	70-133	3	30	
2,2-Dichloropropane	ug/L	ND	20	20	26.0	24.3	130	122	52-155	6	30	
2-Butanone (MEK)	ug/L	ND	40	40	41.9	42.3	105	106	61-147	1	30	
2-Chlorotoluene	ug/L	ND	20	20	24.0	23.5	120	118	70-141	2	30	
2-Hexanone	ug/L	ND	40	40	43.6	43.3	109	108	67-139	1	30	
4-Chlorotoluene	ug/L	ND	20	20	23.4	22.7	117	113	70-135	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	44.8	45.9	112	115	67-136	2	30	
Acetone	ug/L	ND	40	40	46.7	47.1	117	118	55-159	1	30	
Benzene	ug/L	ND	20	20	23.8	23.1	119	115	67-150	3	30	
Bromobenzene	ug/L	ND	20	20	23.2	22.7	116	113	70-134	2	30	
Bromochloromethane	ug/L	ND	20	20	24.2	22.8	121	114	70-146	6	30	
Bromodichloromethane	ug/L	ND	20	20	23.5	23.0	117	115	70-138	2	30	
Bromoform	ug/L	ND	20	20	21.6	20.6	108	103	57-138	5	30	
Bromomethane	ug/L	ND	20	20	32.2	30.3	161	151	10-200	6	30	
Carbon tetrachloride	ug/L	ND	20	20	25.0	24.6	125	123	70-147	2	30	
Chlorobenzene	ug/L	ND	20	20	23.6	22.5	118	113	70-137	5	30	
Chloroethane	ug/L	ND	20	20	26.0	23.9	130	119	51-166	9	30	
Chloroform	ug/L	ND	20	20	24.9	24.7	124	123	70-144	1	30	
Chloromethane	ug/L	ND	20	20	22.0	21.3	110	107	24-161	3	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.7	23.5	118	118	67-148	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	23.1	22.7	115	114	70-142	2	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Parameter	Units	3260483		3260484		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92537976008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Dibromochloromethane	ug/L	ND	20	20	22.8	21.6	114	108	68-138	5	30	
Dibromomethane	ug/L	ND	20	20	22.6	22.7	113	113	70-134	0	30	
Dichlorodifluoromethane	ug/L	ND	20	20	22.9	21.6	115	108	43-155	6	30	
Diisopropyl ether	ug/L	ND	20	20	22.2	21.9	111	109	65-146	1	30	
Ethylbenzene	ug/L	ND	20	20	23.8	22.6	119	113	68-143	5	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.9	24.1	125	121	62-151	3	30	
m&p-Xylene	ug/L	ND	40	40	47.7	45.4	119	114	53-157	5	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.2	21.3	111	107	59-156	4	30	
Methylene Chloride	ug/L	ND	20	20	23.6	22.9	118	115	64-148	3	30	
Naphthalene	ug/L	ND	20	20	21.3	21.2	107	106	57-150	0	30	
o-Xylene	ug/L	ND	20	20	23.6	22.3	118	112	68-143	6	30	
p-Isopropyltoluene	ug/L	ND	20	20	23.5	22.6	118	113	70-141	4	30	
Styrene	ug/L	ND	20	20	23.6	22.2	118	111	70-136	6	30	
Tetrachloroethene	ug/L	ND	20	20	24.2	23.1	121	115	70-139	5	30	
Toluene	ug/L	ND	20	20	23.4	22.9	117	115	47-157	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.4	24.1	122	121	70-149	1	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.4	23.0	117	115	70-138	2	30	
Trichloroethene	ug/L	ND	20	20	24.3	23.3	122	117	70-149	4	30	
Trichlorofluoromethane	ug/L	ND	20	20	25.8	25.1	129	125	61-154	3	30	
Vinyl acetate	ug/L	ND	40	40	45.9	45.3	115	113	48-156	1	30	
Vinyl chloride	ug/L	ND	20	20	22.9	22.0	114	110	55-172	4	30	
Xylene (Total)	ug/L	ND	60	60	71.3	67.7	119	113	66-145	5	30	
1,2-Dichloroethane-d4 (S)	%						104	100	70-130			
4-Bromofluorobenzene (S)	%						102	100	70-130			
Toluene-d8 (S)	%						101	102	70-130			

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

QC Batch: 619724 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92537976009, 92537976010, 92537976011, 92537976012, 92537976013, 92537976014, 92537976018, 92537976019, 92537976021, 92537976022, 92537976023

METHOD BLANK: 3260526 Matrix: Water
Associated Lab Samples: 92537976009, 92537976010, 92537976011, 92537976012, 92537976013, 92537976014, 92537976018, 92537976019, 92537976021, 92537976022, 92537976023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/12/21 01:35	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/12/21 01:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/12/21 01:35	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/12/21 01:35	
1,1-Dichloroethane	ug/L	ND	1.0	05/12/21 01:35	
1,1-Dichloroethene	ug/L	ND	1.0	05/12/21 01:35	
1,1-Dichloropropene	ug/L	ND	1.0	05/12/21 01:35	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/12/21 01:35	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/12/21 01:35	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/12/21 01:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/12/21 01:35	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/12/21 01:35	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/12/21 01:35	
1,2-Dichloroethane	ug/L	ND	1.0	05/12/21 01:35	
1,2-Dichloropropane	ug/L	ND	1.0	05/12/21 01:35	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/12/21 01:35	
1,3-Dichloropropane	ug/L	ND	1.0	05/12/21 01:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/12/21 01:35	
2,2-Dichloropropane	ug/L	ND	1.0	05/12/21 01:35	
2-Butanone (MEK)	ug/L	ND	5.0	05/12/21 01:35	
2-Chlorotoluene	ug/L	ND	1.0	05/12/21 01:35	
2-Hexanone	ug/L	ND	5.0	05/12/21 01:35	
4-Chlorotoluene	ug/L	ND	1.0	05/12/21 01:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/12/21 01:35	
Acetone	ug/L	ND	25.0	05/12/21 01:35	
Benzene	ug/L	ND	1.0	05/12/21 01:35	
Bromobenzene	ug/L	ND	1.0	05/12/21 01:35	
Bromochloromethane	ug/L	ND	1.0	05/12/21 01:35	
Bromodichloromethane	ug/L	ND	1.0	05/12/21 01:35	
Bromoform	ug/L	ND	1.0	05/12/21 01:35	
Bromomethane	ug/L	ND	2.0	05/12/21 01:35	
Carbon tetrachloride	ug/L	ND	1.0	05/12/21 01:35	
Chlorobenzene	ug/L	ND	1.0	05/12/21 01:35	
Chloroethane	ug/L	ND	1.0	05/12/21 01:35	IK
Chloroform	ug/L	ND	5.0	05/12/21 01:35	
Chloromethane	ug/L	ND	1.0	05/12/21 01:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/12/21 01:35	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/12/21 01:35	
Dibromochloromethane	ug/L	ND	1.0	05/12/21 01:35	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

METHOD BLANK: 3260526

Matrix: Water

Associated Lab Samples: 92537976009, 92537976010, 92537976011, 92537976012, 92537976013, 92537976014, 92537976018, 92537976019, 92537976021, 92537976022, 92537976023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	05/12/21 01:35	
Dichlorodifluoromethane	ug/L	ND	1.0	05/12/21 01:35	
Diisopropyl ether	ug/L	ND	1.0	05/12/21 01:35	
Ethylbenzene	ug/L	ND	1.0	05/12/21 01:35	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	05/12/21 01:35	v2
m&p-Xylene	ug/L	ND	2.0	05/12/21 01:35	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/12/21 01:35	
Methylene Chloride	ug/L	ND	5.0	05/12/21 01:35	
Naphthalene	ug/L	ND	1.0	05/12/21 01:35	
o-Xylene	ug/L	ND	1.0	05/12/21 01:35	
p-Isopropyltoluene	ug/L	ND	1.0	05/12/21 01:35	
Styrene	ug/L	ND	1.0	05/12/21 01:35	
Tetrachloroethene	ug/L	ND	1.0	05/12/21 01:35	
Toluene	ug/L	ND	1.0	05/12/21 01:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/12/21 01:35	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/12/21 01:35	
Trichloroethene	ug/L	ND	1.0	05/12/21 01:35	
Trichlorofluoromethane	ug/L	ND	1.0	05/12/21 01:35	
Vinyl acetate	ug/L	ND	2.0	05/12/21 01:35	
Vinyl chloride	ug/L	ND	1.0	05/12/21 01:35	
Xylene (Total)	ug/L	ND	1.0	05/12/21 01:35	
1,2-Dichloroethane-d4 (S)	%	109	70-130	05/12/21 01:35	
4-Bromofluorobenzene (S)	%	99	70-130	05/12/21 01:35	
Toluene-d8 (S)	%	101	70-130	05/12/21 01:35	

LABORATORY CONTROL SAMPLE: 3260527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.9	96	70-130	
1,1,1-Trichloroethane	ug/L	50	49.1	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	70-130	
1,1,2-Trichloroethane	ug/L	50	48.9	98	70-130	
1,1-Dichloroethane	ug/L	50	49.3	99	70-130	
1,1-Dichloroethene	ug/L	50	51.0	102	70-132	
1,1-Dichloropropene	ug/L	50	47.4	95	70-131	
1,2,3-Trichlorobenzene	ug/L	50	50.8	102	70-134	
1,2,3-Trichloropropane	ug/L	50	48.5	97	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.1	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.3	97	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	49.0	98	70-130	
1,2-Dichlorobenzene	ug/L	50	48.4	97	70-130	
1,2-Dichloroethane	ug/L	50	48.8	98	70-130	
1,2-Dichloropropane	ug/L	50	50.2	100	70-130	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

LABORATORY CONTROL SAMPLE: 3260527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.3	97	70-130	
1,3-Dichloropropane	ug/L	50	48.8	98	70-130	
1,4-Dichlorobenzene	ug/L	50	49.1	98	70-130	
2,2-Dichloropropane	ug/L	50	48.8	98	70-130	
2-Butanone (MEK)	ug/L	100	97.0	97	70-133	
2-Chlorotoluene	ug/L	50	49.7	99	70-130	
2-Hexanone	ug/L	100	103	103	70-130	
4-Chlorotoluene	ug/L	50	48.3	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	70-130	
Acetone	ug/L	100	108	108	70-144	
Benzene	ug/L	50	49.5	99	70-130	
Bromobenzene	ug/L	50	48.9	98	70-130	
Bromochloromethane	ug/L	50	51.1	102	70-130	
Bromodichloromethane	ug/L	50	49.5	99	70-130	
Bromoform	ug/L	50	47.9	96	70-131	
Bromomethane	ug/L	50	54.8	110	30-177	
Carbon tetrachloride	ug/L	50	48.6	97	70-130	
Chlorobenzene	ug/L	50	49.8	100	70-130	
Chloroethane	ug/L	50	40.0	80	46-131	IK
Chloroform	ug/L	50	52.2	104	70-130	
Chloromethane	ug/L	50	45.3	91	49-130	
cis-1,2-Dichloroethene	ug/L	50	49.6	99	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Dibromochloromethane	ug/L	50	49.0	98	70-130	
Dibromomethane	ug/L	50	49.8	100	70-130	
Dichlorodifluoromethane	ug/L	50	43.0	86	52-134	
Diisopropyl ether	ug/L	50	49.1	98	70-131	
Ethylbenzene	ug/L	50	48.6	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	50.2	100	70-131	v2
m&p-Xylene	ug/L	100	97.8	98	70-130	
Methyl-tert-butyl ether	ug/L	50	48.4	97	70-130	
Methylene Chloride	ug/L	50	48.2	96	68-130	
Naphthalene	ug/L	50	49.0	98	70-133	
o-Xylene	ug/L	50	48.8	98	70-130	
p-Isopropyltoluene	ug/L	50	47.8	96	70-130	
Styrene	ug/L	50	49.4	99	70-130	
Tetrachloroethene	ug/L	50	47.4	95	70-130	
Toluene	ug/L	50	47.6	95	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.0	98	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.2	98	70-130	
Trichloroethene	ug/L	50	48.8	98	70-130	
Trichlorofluoromethane	ug/L	50	51.3	103	61-130	
Vinyl acetate	ug/L	100	104	104	70-140	
Vinyl chloride	ug/L	50	45.0	90	59-142	
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

LABORATORY CONTROL SAMPLE: 3260527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3260528 3260529

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92537976022 Result	Spike Conc.	Spike Conc.	Result							Result
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.3	20.8	107	104	70-135	3	30	
1,1,1-Trichloroethane	ug/L	8.7	20	20	32.7	31.7	120	115	70-148	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.3	20.7	106	104	70-131	3	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.1	21.3	111	107	70-136	4	30	
1,1-Dichloroethane	ug/L	26.4	20	20	50.3	48.9	119	112	70-147	3	30	
1,1-Dichloroethene	ug/L	117	20	20	169	162	256	223	70-158	4	30	M1
1,1-Dichloropropene	ug/L	ND	20	20	22.6	21.7	113	108	70-149	4	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.1	21.0	111	105	68-140	5	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.1	20.3	105	101	67-137	4	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.3	20.3	106	102	70-139	5	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.4	19.8	102	99	69-136	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.6	20.8	108	104	70-137	4	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.5	20.9	108	104	70-133	3	30	
1,2-Dichloroethane	ug/L	1.6	20	20	23.3	22.4	108	104	67-138	4	30	
1,2-Dichloropropane	ug/L	ND	20	20	23.1	22.0	116	110	70-138	5	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	21.8	20.7	109	104	70-133	5	30	
1,3-Dichloropropane	ug/L	ND	20	20	21.5	20.8	107	104	70-136	3	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.6	20.9	108	104	70-133	3	30	
2,2-Dichloropropane	ug/L	ND	20	20	24.0	22.4	120	112	52-155	7	30	
2-Butanone (MEK)	ug/L	ND	40	40	40.7	39.7	102	99	61-147	2	30	
2-Chlorotoluene	ug/L	ND	20	20	22.9	21.7	115	109	70-141	5	30	
2-Hexanone	ug/L	ND	40	40	41.9	41.0	105	102	67-139	2	30	
4-Chlorotoluene	ug/L	ND	20	20	21.7	20.8	108	104	70-135	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	43.2	41.5	108	104	67-136	4	30	
Acetone	ug/L	ND	40	40	44.7	44.1	112	110	55-159	1	30	
Benzene	ug/L	ND	20	20	22.5	21.3	112	106	67-150	6	30	
Bromobenzene	ug/L	ND	20	20	22.1	21.3	110	107	70-134	4	30	
Bromochloromethane	ug/L	ND	20	20	22.2	21.1	111	105	70-146	5	30	
Bromodichloromethane	ug/L	ND	20	20	21.9	21.1	110	105	70-138	4	30	
Bromoform	ug/L	ND	20	20	20.6	19.2	103	96	57-138	7	30	
Bromomethane	ug/L	ND	20	20	30.1	27.9	150	139	10-200	8	30	
Carbon tetrachloride	ug/L	ND	20	20	23.4	22.6	117	113	70-147	3	30	
Chlorobenzene	ug/L	ND	20	20	22.1	21.2	111	106	70-137	4	30	
Chloroethane	ug/L	ND	20	20	23.6	22.2	118	111	51-166	7	30	IK
Chloroform	ug/L	ND	20	20	23.5	22.9	116	113	70-144	3	30	
Chloromethane	ug/L	ND	20	20	21.1	19.5	105	98	24-161	8	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.8	21.5	114	108	67-148	6	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.7	20.8	108	104	70-142	4	30	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Parameter	Units	92537976022		3260528		3260529		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Dibromochloromethane	ug/L	ND	20	20	21.3	20.4	106	102	68-138	4	30			
Dibromomethane	ug/L	ND	20	20	21.9	21.3	110	107	70-134	3	30			
Dichlorodifluoromethane	ug/L	ND	20	20	21.6	20.4	108	102	43-155	6	30			
Diisopropyl ether	ug/L	ND	20	20	21.1	20.3	106	101	65-146	4	30			
Ethylbenzene	ug/L	ND	20	20	22.0	21.4	110	107	68-143	3	30			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.0	21.6	115	108	62-151	6	30			
m&p-Xylene	ug/L	ND	40	40	44.1	43.0	110	107	53-157	3	30			
Methyl-tert-butyl ether	ug/L	ND	20	20	21.4	20.5	103	98	59-156	4	30			
Methylene Chloride	ug/L	ND	20	20	22.3	21.1	112	106	64-148	5	30			
Naphthalene	ug/L	ND	20	20	20.6	19.7	103	99	57-150	5	30			
o-Xylene	ug/L	ND	20	20	21.4	21.1	107	106	68-143	1	30			
p-Isopropyltoluene	ug/L	ND	20	20	21.6	21.0	108	105	70-141	3	30			
Styrene	ug/L	ND	20	20	22.0	21.1	110	105	70-136	4	30			
Tetrachloroethene	ug/L	ND	20	20	22.1	21.3	111	106	70-139	4	30			
Toluene	ug/L	ND	20	20	21.9	21.2	110	106	47-157	3	30			
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.9	21.5	114	108	70-149	6	30			
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.6	21.0	108	105	70-138	3	30			
Trichloroethene	ug/L	ND	20	20	23.3	22.3	114	109	70-149	4	30			
Trichlorofluoromethane	ug/L	ND	20	20	23.7	22.5	118	113	61-154	5	30			
Vinyl acetate	ug/L	ND	40	40	43.7	41.7	109	104	48-156	5	30			
Vinyl chloride	ug/L	ND	20	20	21.9	20.8	110	104	55-172	5	30			
Xylene (Total)	ug/L	ND	60	60	65.5	64.1	109	107	66-145	2	30			
1,2-Dichloroethane-d4 (S)	%						100	103	70-130					
4-Bromofluorobenzene (S)	%						101	102	70-130					
Toluene-d8 (S)	%						101	100	70-130					

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

QC Batch: 620213 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92537976015, 92537976016, 92537976020

METHOD BLANK: 3263117 Matrix: Water
Associated Lab Samples: 92537976015, 92537976016, 92537976020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1-Dichloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1-Dichloroethene	ug/L	ND	1.0	05/13/21 12:16	
1,1-Dichloropropene	ug/L	ND	1.0	05/13/21 12:16	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/13/21 12:16	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/13/21 12:16	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dichloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dichloropropane	ug/L	ND	1.0	05/13/21 12:16	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
1,3-Dichloropropane	ug/L	ND	1.0	05/13/21 12:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
2,2-Dichloropropane	ug/L	ND	1.0	05/13/21 12:16	
2-Butanone (MEK)	ug/L	ND	5.0	05/13/21 12:16	
2-Chlorotoluene	ug/L	ND	1.0	05/13/21 12:16	
2-Hexanone	ug/L	ND	5.0	05/13/21 12:16	
4-Chlorotoluene	ug/L	ND	1.0	05/13/21 12:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/13/21 12:16	
Acetone	ug/L	ND	25.0	05/13/21 12:16	v1
Benzene	ug/L	ND	1.0	05/13/21 12:16	
Bromobenzene	ug/L	ND	1.0	05/13/21 12:16	
Bromochloromethane	ug/L	ND	1.0	05/13/21 12:16	
Bromodichloromethane	ug/L	ND	1.0	05/13/21 12:16	
Bromoform	ug/L	ND	1.0	05/13/21 12:16	
Bromomethane	ug/L	ND	2.0	05/13/21 12:16	IK
Carbon tetrachloride	ug/L	ND	1.0	05/13/21 12:16	
Chlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
Chloroethane	ug/L	ND	1.0	05/13/21 12:16	
Chloroform	ug/L	ND	5.0	05/13/21 12:16	
Chloromethane	ug/L	ND	1.0	05/13/21 12:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/13/21 12:16	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/13/21 12:16	
Dibromochloromethane	ug/L	ND	1.0	05/13/21 12:16	
Dibromomethane	ug/L	ND	1.0	05/13/21 12:16	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

METHOD BLANK: 3263117 Matrix: Water
Associated Lab Samples: 92537976015, 92537976016, 92537976020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/13/21 12:16	
Diisopropyl ether	ug/L	ND	1.0	05/13/21 12:16	
Ethylbenzene	ug/L	ND	1.0	05/13/21 12:16	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	05/13/21 12:16	
m&p-Xylene	ug/L	ND	2.0	05/13/21 12:16	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/13/21 12:16	
Methylene Chloride	ug/L	ND	5.0	05/13/21 12:16	
Naphthalene	ug/L	ND	1.0	05/13/21 12:16	
o-Xylene	ug/L	ND	1.0	05/13/21 12:16	
p-Isopropyltoluene	ug/L	ND	1.0	05/13/21 12:16	
Styrene	ug/L	ND	1.0	05/13/21 12:16	
Tetrachloroethene	ug/L	ND	1.0	05/13/21 12:16	
Toluene	ug/L	ND	1.0	05/13/21 12:16	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/13/21 12:16	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/13/21 12:16	
Trichloroethene	ug/L	ND	1.0	05/13/21 12:16	
Trichlorofluoromethane	ug/L	ND	1.0	05/13/21 12:16	
Vinyl acetate	ug/L	ND	2.0	05/13/21 12:16	
Vinyl chloride	ug/L	ND	1.0	05/13/21 12:16	
Xylene (Total)	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dichloroethane-d4 (S)	%	97	70-130	05/13/21 12:16	
4-Bromofluorobenzene (S)	%	98	70-130	05/13/21 12:16	
Toluene-d8 (S)	%	99	70-130	05/13/21 12:16	

LABORATORY CONTROL SAMPLE: 3263118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.4	107	70-130	
1,1,1-Trichloroethane	ug/L	50	49.1	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	57.2	114	70-130	
1,1,2-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1-Dichloroethane	ug/L	50	54.2	108	70-130	
1,1-Dichloroethene	ug/L	50	49.5	99	70-132	
1,1-Dichloropropene	ug/L	50	50.7	101	70-131	
1,2,3-Trichlorobenzene	ug/L	50	54.9	110	70-134	
1,2,3-Trichloropropane	ug/L	50	55.1	110	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.1	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	58.5	117	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	53.5	107	70-130	
1,2-Dichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dichloroethane	ug/L	50	50.0	100	70-130	
1,2-Dichloropropane	ug/L	50	54.1	108	70-130	
1,3-Dichlorobenzene	ug/L	50	50.4	101	70-130	
1,3-Dichloropropane	ug/L	50	53.3	107	70-130	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

LABORATORY CONTROL SAMPLE: 3263118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
2,2-Dichloropropane	ug/L	50	51.3	103	70-130	
2-Butanone (MEK)	ug/L	100	117	117	70-133	
2-Chlorotoluene	ug/L	50	50.9	102	70-130	
2-Hexanone	ug/L	100	117	117	70-130	
4-Chlorotoluene	ug/L	50	50.3	101	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	70-130	
Acetone	ug/L	100	128	128	70-144 v1	
Benzene	ug/L	50	53.2	106	70-130	
Bromobenzene	ug/L	50	50.3	101	70-130	
Bromochloromethane	ug/L	50	53.6	107	70-130	
Bromodichloromethane	ug/L	50	51.6	103	70-130	
Bromoform	ug/L	50	54.8	110	70-131	
Bromomethane	ug/L	50	36.7	73	30-177 IK	
Carbon tetrachloride	ug/L	50	50.5	101	70-130	
Chlorobenzene	ug/L	50	52.6	105	70-130	
Chloroethane	ug/L	50	50.9	102	46-131	
Chloroform	ug/L	50	52.7	105	70-130	
Chloromethane	ug/L	50	52.9	106	49-130	
cis-1,2-Dichloroethene	ug/L	50	52.3	105	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.4	105	70-130	
Dibromochloromethane	ug/L	50	55.1	110	70-130	
Dibromomethane	ug/L	50	53.3	107	70-130	
Dichlorodifluoromethane	ug/L	50	37.4	75	52-134	
Diisopropyl ether	ug/L	50	53.8	108	70-131	
Ethylbenzene	ug/L	50	51.9	104	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.1	108	70-131	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	53.6	107	70-130	
Methylene Chloride	ug/L	50	46.9	94	68-130	
Naphthalene	ug/L	50	56.3	113	70-133	
o-Xylene	ug/L	50	52.2	104	70-130	
p-Isopropyltoluene	ug/L	50	50.5	101	70-130	
Styrene	ug/L	50	53.4	107	70-130	
Tetrachloroethene	ug/L	50	49.9	100	70-130	
Toluene	ug/L	50	49.0	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	55.8	112	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.2	102	70-130	
Trichloroethene	ug/L	50	51.4	103	70-130	
Trichlorofluoromethane	ug/L	50	41.7	83	61-130	
Vinyl acetate	ug/L	100	122	122	70-140	
Vinyl chloride	ug/L	50	47.5	95	59-142	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			95	70-130	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Parameter	Units	3263119		3263120		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92537746001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	582	433	146	108	70-135	29	30	M1	
1,1,1-Trichloroethane	ug/L	ND	400	400	589	438	147	110	70-148	29	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	618	453	154	113	70-131	31	30	M1,R1	
1,1,2-Trichloroethane	ug/L	ND	400	400	581	426	145	106	70-136	31	30	M1,R1	
1,1-Dichloroethane	ug/L	ND	400	400	640	472	160	118	70-147	30	30	M1	
1,1-Dichloroethene	ug/L	ND	400	400	604	444	151	111	70-158	30	30		
1,1-Dichloropropene	ug/L	ND	400	400	620	454	155	113	70-149	31	30	M1,R1	
1,2,3-Trichlorobenzene	ug/L	ND	400	400	575	444	144	111	68-140	26	30	M1	
1,2,3-Trichloropropane	ug/L	ND	400	400	ND	ND	0	0	67-137		30	M1	
1,2,4-Trichlorobenzene	ug/L	ND	400	400	552	431	138	108	70-139	25	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	608	460	152	115	69-136	28	30	M1	
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	590	440	148	110	70-137	29	30	M1	
1,2-Dichlorobenzene	ug/L	ND	400	400	540	414	135	104	70-133	26	30	M1	
1,2-Dichloroethane	ug/L	ND	400	400	556	413	139	103	67-138	30	30	M1	
1,2-Dichloropropane	ug/L	ND	400	400	646	483	161	121	70-138	29	30	M1	
1,3-Dichlorobenzene	ug/L	ND	400	400	546	424	137	106	70-133	25	30	M1	
1,3-Dichloropropane	ug/L	ND	400	400	605	449	151	112	70-136	30	30	M1	
1,4-Dichlorobenzene	ug/L	ND	400	400	542	417	136	104	70-133	26	30	M1	
2,2-Dichloropropane	ug/L	ND	400	400	548	410	137	102	52-155	29	30		
2-Butanone (MEK)	ug/L	ND	800	800	1290	927	161	116	61-147	33	30	M1,R1	
2-Chlorotoluene	ug/L	ND	400	400	951	617	238	154	70-141	43	30	M1,R1	
2-Hexanone	ug/L	ND	800	800	1240	884	154	111	67-139	33	30	M1,R1	
4-Chlorotoluene	ug/L	ND	400	400	549	421	137	105	70-135	26	30	M1	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	800	800	1170	842	147	105	67-136	33	30	M1,R1	
Acetone	ug/L	ND	800	800	1350	994	169	124	55-159	31	30	M1,R1, v1	
Benzene	ug/L	3180	400	400	4040	3720	215	135	67-150	8	30	E,M1	
Bromobenzene	ug/L	ND	400	400	548	425	137	106	70-134	25	30	M1	
Bromochloromethane	ug/L	ND	400	400	625	470	156	118	70-146	28	30	M1	
Bromodichloromethane	ug/L	ND	400	400	580	436	145	109	70-138	28	30	M1	
Bromoform	ug/L	ND	400	400	555	415	139	104	57-138	29	30	M1	
Bromomethane	ug/L	ND	400	400	591	411	148	103	10-200	36	30	IK,R1	
Carbon tetrachloride	ug/L	ND	400	400	594	451	149	113	70-147	27	30	M1	
Chlorobenzene	ug/L	ND	400	400	593	445	148	111	70-137	29	30	M1	
Chloroethane	ug/L	ND	400	400	692	640	173	160	51-166	8	30	M1	
Chloroform	ug/L	ND	400	400	636	468	158	116	70-144	30	30	M1	
Chloromethane	ug/L	ND	400	400	612	437	153	109	24-161	33	30	R1	
cis-1,2-Dichloroethene	ug/L	ND	400	400	618	461	155	115	67-148	29	30	M1	
cis-1,3-Dichloropropene	ug/L	ND	400	400	559	418	140	105	70-142	29	30		
Dibromochloromethane	ug/L	ND	400	400	599	438	150	110	68-138	31	30	M1,R1	
Dibromomethane	ug/L	ND	400	400	596	443	149	111	70-134	30	30	M1	
Dichlorodifluoromethane	ug/L	ND	400	400	478	357	119	89	43-155	29	30		
Diisopropyl ether	ug/L	26.1	400	400	638	478	153	113	65-146	29	30	M1	
Ethylbenzene	ug/L	1680	400	400	2360	2170	169	124	68-143	8	30	M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Parameter	Units	3263119		3263120		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92537746001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Hexachloro-1,3-butadiene	ug/L	ND	400	400	570	442	142	110	62-151	25	30		
m&p-Xylene	ug/L	5900	800	800	7320	6870	177	121	53-157	6	30	M1	
Methyl-tert-butyl ether	ug/L	524	400	400	1180	994	165	117	59-156	17	30	M1	
Methylene Chloride	ug/L	ND	400	400	499	331	125	83	64-148	41	30	R1	
Naphthalene	ug/L	758	400	400	1420	1260	166	126	57-150	12	30	M1	
o-Xylene	ug/L	3320	400	400	4070	3830	188	127	68-143	6	30	E,M1	
p-Isopropyltoluene	ug/L	ND	400	400	587	456	147	114	70-141	25	30	M1	
Styrene	ug/L	ND	400	400	696	547	174	137	70-136	24	30	M1	
Tetrachloroethene	ug/L	ND	400	400	563	420	141	105	70-139	29	30	M1	
Toluene	ug/L	685	400	400	1310	1130	156	111	47-157	15	30		
trans-1,2-Dichloroethene	ug/L	ND	400	400	638	479	159	120	70-149	28	30	M1	
trans-1,3-Dichloropropene	ug/L	ND	400	400	547	401	137	100	70-138	31	30	R1	
Trichloroethene	ug/L	ND	400	400	608	450	152	112	70-149	30	30	M1	
Trichlorofluoromethane	ug/L	ND	400	400	532	393	133	98	61-154	30	30		
Vinyl acetate	ug/L	ND	800	800	1310	960	164	120	48-156	31	30	M1,R1	
Vinyl chloride	ug/L	ND	400	400	620	462	155	115	55-172	29	30		
Xylene (Total)	ug/L	9230	1200	1200	11400	10700	180	123	66-145	6	30	ES,MS	
1,2-Dichloroethane-d4 (S)	%						89	94	70-130				
4-Bromofluorobenzene (S)	%						100	100	70-130				
Toluene-d8 (S)	%						96	95	70-130				

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

QC Batch: 620626 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92537976017

METHOD BLANK: 3265483 Matrix: Water
Associated Lab Samples: 92537976017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/14/21 17:20	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/14/21 17:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/14/21 17:20	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/14/21 17:20	
1,1-Dichloroethane	ug/L	ND	1.0	05/14/21 17:20	
1,1-Dichloroethene	ug/L	ND	1.0	05/14/21 17:20	
1,1-Dichloropropene	ug/L	ND	1.0	05/14/21 17:20	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/14/21 17:20	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/14/21 17:20	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/14/21 17:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/14/21 17:20	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/14/21 17:20	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/14/21 17:20	
1,2-Dichloroethane	ug/L	ND	1.0	05/14/21 17:20	
1,2-Dichloropropane	ug/L	ND	1.0	05/14/21 17:20	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/14/21 17:20	
1,3-Dichloropropane	ug/L	ND	1.0	05/14/21 17:20	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/14/21 17:20	
2,2-Dichloropropane	ug/L	ND	1.0	05/14/21 17:20	
2-Butanone (MEK)	ug/L	ND	5.0	05/14/21 17:20	
2-Chlorotoluene	ug/L	ND	1.0	05/14/21 17:20	
2-Hexanone	ug/L	ND	5.0	05/14/21 17:20	
4-Chlorotoluene	ug/L	ND	1.0	05/14/21 17:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/14/21 17:20	
Acetone	ug/L	ND	25.0	05/14/21 17:20	
Benzene	ug/L	ND	1.0	05/14/21 17:20	
Bromobenzene	ug/L	ND	1.0	05/14/21 17:20	
Bromochloromethane	ug/L	ND	1.0	05/14/21 17:20	IK
Bromodichloromethane	ug/L	ND	1.0	05/14/21 17:20	
Bromoform	ug/L	ND	1.0	05/14/21 17:20	
Bromomethane	ug/L	ND	2.0	05/14/21 17:20	IH,v1
Carbon tetrachloride	ug/L	ND	1.0	05/14/21 17:20	
Chlorobenzene	ug/L	ND	1.0	05/14/21 17:20	
Chloroethane	ug/L	ND	1.0	05/14/21 17:20	
Chloroform	ug/L	ND	5.0	05/14/21 17:20	
Chloromethane	ug/L	ND	1.0	05/14/21 17:20	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/14/21 17:20	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/14/21 17:20	
Dibromochloromethane	ug/L	ND	1.0	05/14/21 17:20	
Dibromomethane	ug/L	ND	1.0	05/14/21 17:20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

METHOD BLANK: 3265483 Matrix: Water
Associated Lab Samples: 92537976017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/14/21 17:20	
Diisopropyl ether	ug/L	ND	1.0	05/14/21 17:20	
Ethylbenzene	ug/L	ND	1.0	05/14/21 17:20	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	05/14/21 17:20	
m&p-Xylene	ug/L	ND	2.0	05/14/21 17:20	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/14/21 17:20	
Methylene Chloride	ug/L	ND	5.0	05/14/21 17:20	
Naphthalene	ug/L	ND	1.0	05/14/21 17:20	
o-Xylene	ug/L	ND	1.0	05/14/21 17:20	
p-Isopropyltoluene	ug/L	ND	1.0	05/14/21 17:20	
Styrene	ug/L	ND	1.0	05/14/21 17:20	
Tetrachloroethene	ug/L	ND	1.0	05/14/21 17:20	
Toluene	ug/L	ND	1.0	05/14/21 17:20	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/14/21 17:20	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/14/21 17:20	
Trichloroethene	ug/L	ND	1.0	05/14/21 17:20	
Trichlorofluoromethane	ug/L	ND	1.0	05/14/21 17:20	
Vinyl acetate	ug/L	ND	2.0	05/14/21 17:20	
Vinyl chloride	ug/L	ND	1.0	05/14/21 17:20	
Xylene (Total)	ug/L	ND	1.0	05/14/21 17:20	
1,2-Dichloroethane-d4 (S)	%	83	70-130	05/14/21 17:20	
4-Bromofluorobenzene (S)	%	104	70-130	05/14/21 17:20	
Toluene-d8 (S)	%	108	70-130	05/14/21 17:20	

LABORATORY CONTROL SAMPLE: 3265484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.5	111	70-130	
1,1,1-Trichloroethane	ug/L	50	48.1	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.4	101	70-130	
1,1,2-Trichloroethane	ug/L	50	56.1	112	70-130	
1,1-Dichloroethane	ug/L	50	47.4	95	70-130	
1,1-Dichloroethene	ug/L	50	45.5	91	70-132	
1,1-Dichloropropene	ug/L	50	51.2	102	70-131	
1,2,3-Trichlorobenzene	ug/L	50	53.1	106	70-134	
1,2,3-Trichloropropane	ug/L	50	47.4	95	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.8	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	53.1	106	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	56.0	112	70-130	
1,2-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,2-Dichloroethane	ug/L	50	45.9	92	70-130	
1,2-Dichloropropane	ug/L	50	52.5	105	70-130	
1,3-Dichlorobenzene	ug/L	50	51.6	103	70-130	
1,3-Dichloropropane	ug/L	50	54.1	108	70-130	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

LABORATORY CONTROL SAMPLE: 3265484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	52.6	105	70-130	
2,2-Dichloropropane	ug/L	50	48.3	97	70-130	
2-Butanone (MEK)	ug/L	100	101	101	70-133	
2-Chlorotoluene	ug/L	50	52.8	106	70-130	
2-Hexanone	ug/L	100	89.0	89	70-130	
4-Chlorotoluene	ug/L	50	50.8	102	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.7	94	70-130	
Acetone	ug/L	100	93.3	93	70-144	
Benzene	ug/L	50	51.3	103	70-130	
Bromobenzene	ug/L	50	53.9	108	70-130	
Bromochloromethane	ug/L	50	50.4	101	70-130	IK
Bromodichloromethane	ug/L	50	51.3	103	70-130	
Bromoform	ug/L	50	56.8	114	70-131	
Bromomethane	ug/L	50	67.5	135	30-177	IH,v1
Carbon tetrachloride	ug/L	50	50.4	101	70-130	
Chlorobenzene	ug/L	50	51.0	102	70-130	
Chloroethane	ug/L	50	45.8	92	46-131	
Chloroform	ug/L	50	49.2	98	70-130	
Chloromethane	ug/L	50	47.4	95	49-130	
cis-1,2-Dichloroethene	ug/L	50	46.3	93	70-130	
cis-1,3-Dichloropropene	ug/L	50	54.2	108	70-130	
Dibromochloromethane	ug/L	50	56.7	113	70-130	
Dibromomethane	ug/L	50	53.2	106	70-130	
Dichlorodifluoromethane	ug/L	50	41.4	83	52-134	
Diisopropyl ether	ug/L	50	45.9	92	70-131	
Ethylbenzene	ug/L	50	50.5	101	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.6	109	70-131	
m&p-Xylene	ug/L	100	99.7	100	70-130	
Methyl-tert-butyl ether	ug/L	50	51.2	102	70-130	
Methylene Chloride	ug/L	50	45.0	90	68-130	
Naphthalene	ug/L	50	49.5	99	70-133	
o-Xylene	ug/L	50	50.2	100	70-130	
p-Isopropyltoluene	ug/L	50	48.6	97	70-130	
Styrene	ug/L	50	51.0	102	70-130	
Tetrachloroethene	ug/L	50	51.3	103	70-130	
Toluene	ug/L	50	49.2	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.4	93	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.8	106	70-130	
Trichloroethene	ug/L	50	56.5	113	70-130	
Trichlorofluoromethane	ug/L	50	45.9	92	61-130	
Vinyl acetate	ug/L	100	119	119	70-140	
Vinyl chloride	ug/L	50	44.8	90	59-142	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Parameter	Units	92538877004		MS		MSD		3265485		3265486		Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	100	100	113	123	113	123	70-135	9	30	
1,1,1-Trichloroethane	ug/L	ND	100	100	111	115	111	115	70-148	4	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	104	116	104	116	70-131	11	30	
1,1,2-Trichloroethane	ug/L	ND	100	100	123	130	123	130	70-136	5	30	
1,1-Dichloroethane	ug/L	ND	100	100	109	112	109	112	70-147	3	30	
1,1-Dichloroethene	ug/L	ND	100	100	108	114	108	114	70-158	5	30	
1,1-Dichloropropene	ug/L	ND	100	100	114	122	114	122	70-149	7	30	
1,2,3-Trichlorobenzene	ug/L	ND	100	100	110	119	110	119	68-140	8	30	
1,2,3-Trichloropropane	ug/L	ND	100	100	100	114	100	114	67-137	12	30	
1,2,4-Trichlorobenzene	ug/L	ND	100	100	108	117	108	117	70-139	8	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	105	116	105	116	69-136	10	30	
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	111	123	111	123	70-137	10	30	
1,2-Dichlorobenzene	ug/L	ND	100	100	109	115	109	115	70-133	5	30	
1,2-Dichloroethane	ug/L	ND	100	100	104	109	104	109	67-138	5	30	
1,2-Dichloropropane	ug/L	ND	100	100	118	125	118	125	70-138	6	30	
1,3-Dichlorobenzene	ug/L	ND	100	100	109	117	109	117	70-133	7	30	
1,3-Dichloropropane	ug/L	ND	100	100	110	118	110	118	70-136	6	30	
1,4-Dichlorobenzene	ug/L	ND	100	100	111	116	111	116	70-133	4	30	
2,2-Dichloropropane	ug/L	ND	100	100	109	113	109	113	52-155	4	30	
2-Butanone (MEK)	ug/L	ND	200	200	207	228	103	114	61-147	10	30	
2-Chlorotoluene	ug/L	ND	100	100	114	118	114	118	70-141	4	30	
2-Hexanone	ug/L	ND	200	200	186	205	93	103	67-139	10	30	
4-Chlorotoluene	ug/L	ND	100	100	109	114	109	114	70-135	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	200	200	204	229	102	114	67-136	11	30	
Acetone	ug/L	ND	200	200	180	234	90	117	55-159	26	30	
Benzene	ug/L	193	100	100	316	318	123	125	67-150	1	30	
Bromobenzene	ug/L	ND	100	100	117	124	117	124	70-134	6	30	
Bromochloromethane	ug/L	ND	100	100	114	115	114	115	70-146	0	30	IK
Bromodichloromethane	ug/L	ND	100	100	115	120	115	120	70-138	4	30	
Bromoform	ug/L	ND	100	100	112	126	112	126	57-138	11	30	
Bromomethane	ug/L	ND	100	100	185	181	185	181	10-200	2	30	IH,v1
Carbon tetrachloride	ug/L	ND	100	100	121	124	121	124	70-147	2	30	
Chlorobenzene	ug/L	ND	100	100	112	118	112	118	70-137	5	30	
Chloroethane	ug/L	ND	100	100	119	123	119	123	51-166	3	30	
Chloroform	ug/L	ND	100	100	110	117	110	117	70-144	6	30	
Chloromethane	ug/L	ND	100	100	106	108	106	108	24-161	2	30	
cis-1,2-Dichloroethene	ug/L	ND	100	100	105	109	105	109	67-148	3	30	
cis-1,3-Dichloropropene	ug/L	ND	100	100	117	123	117	123	70-142	5	30	
Dibromochloromethane	ug/L	ND	100	100	115	126	115	126	68-138	9	30	
Dibromomethane	ug/L	ND	100	100	119	121	119	121	70-134	2	30	
Dichlorodifluoromethane	ug/L	ND	100	100	100	104	100	104	43-155	4	30	
Diisopropyl ether	ug/L	ND	100	100	100	105	97	102	65-146	5	30	
Ethylbenzene	ug/L	18.4	100	100	127	135	109	117	68-143	6	30	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	116	121	116	121	62-151	4	30	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Parameter	Units	3265485		3265486		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92538877004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
m&p-Xylene	ug/L	39.8	200	200	258	270	109	115	53-157	5	30		
Methyl-tert-butyl ether	ug/L	ND	100	100	107	116	107	116	59-156	8	30		
Methylene Chloride	ug/L	ND	100	100	105	107	105	107	64-148	2	30		
Naphthalene	ug/L	975	100	100	1050	1110	79	133	57-150	5	30	E	
o-Xylene	ug/L	20.2	100	100	128	134	108	114	68-143	4	30		
p-Isopropyltoluene	ug/L	ND	100	100	104	108	102	106	70-141	4	30		
Styrene	ug/L	ND	100	100	112	119	111	118	70-136	6	30		
Tetrachloroethene	ug/L	ND	100	100	108	113	108	113	70-139	5	30		
Toluene	ug/L	30.6	100	100	142	147	111	117	47-157	3	30		
trans-1,2-Dichloroethene	ug/L	ND	100	100	106	108	106	108	70-149	1	30		
trans-1,3-Dichloropropene	ug/L	ND	100	100	112	118	112	118	70-138	6	30		
Trichloroethene	ug/L	ND	100	100	125	129	125	129	70-149	3	30		
Trichlorofluoromethane	ug/L	ND	100	100	116	119	116	119	61-154	3	30		
Vinyl acetate	ug/L	ND	200	200	236	256	118	128	48-156	8	30		
Vinyl chloride	ug/L	ND	100	100	106	109	106	109	55-172	3	30		
Xylene (Total)	ug/L	60.0	300	300	386	404	109	115	66-145	5	30		
1,2-Dichloroethane-d4 (S)	%						91	90	70-130				
4-Bromofluorobenzene (S)	%						98	98	70-130				
Toluene-d8 (S)	%						99	99	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

QC Batch: 619692 Analysis Method: EPA 8260D Mod.
QC Batch Method: EPA 8260D Mod. Analysis Description: 8260D MSV SIM
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92537976001, 92537976002, 92537976003, 92537976004

METHOD BLANK: 3260240 Matrix: Water
Associated Lab Samples: 92537976001, 92537976002, 92537976003, 92537976004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	05/11/21 14:55	
1,2-Dichloroethane-d4 (S)	%	109	70-130	05/11/21 14:55	
Toluene-d8 (S)	%	97	66-133	05/11/21 14:55	

LABORATORY CONTROL SAMPLE: 3260241

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	18.0	90	70-130	
1,2-Dichloroethane-d4 (S)	%			110	70-130	
Toluene-d8 (S)	%			99	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3260242 3260243

Parameter	Units	92537966017 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	299	100	100	394	369	95	70	64-141	7	30	
1,2-Dichloroethane-d4 (S)	%						109	108	70-130		30	
Toluene-d8 (S)	%						92	93	66-133		30	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

QC Batch:	619694	Analysis Method:	EPA 8260D Mod.
QC Batch Method:	EPA 8260D Mod.	Analysis Description:	8260D MSV SIM
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92537976005, 92537976006, 92537976007, 92537976008, 92537976009, 92537976010, 92537976011, 92537976012, 92537976013, 92537976014, 92537976018, 92537976019, 92537976020

METHOD BLANK: 3260254 Matrix: Water
Associated Lab Samples: 92537976005, 92537976006, 92537976007, 92537976008, 92537976009, 92537976010, 92537976011, 92537976012, 92537976013, 92537976014, 92537976018, 92537976019, 92537976020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	05/12/21 03:09	
1,2-Dichloroethane-d4 (S)	%	88	70-130	05/12/21 03:09	
Toluene-d8 (S)	%	108	66-133	05/12/21 03:09	

LABORATORY CONTROL SAMPLE: 3260255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.6	103	70-130	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
Toluene-d8 (S)	%			108	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3260256 3260257

Parameter	Units	92537976018 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	23.6	20	20	39.3	42.4	78	94	64-141	7	30	
1,2-Dichloroethane-d4 (S)	%						107	106	70-130		30	
Toluene-d8 (S)	%						92	92	66-133		30	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

QC Batch: 619760	Analysis Method: EPA 8260D Mod.
QC Batch Method: EPA 8260D Mod.	Analysis Description: 8260D MSV SIM
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92537976023

METHOD BLANK: 3260753 Matrix: Water
Associated Lab Samples: 92537976023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	05/12/21 02:50	
1,2-Dichloroethane-d4 (S)	%	88	70-130	05/12/21 02:50	
Toluene-d8 (S)	%	107	66-133	05/12/21 02:50	

LABORATORY CONTROL SAMPLE: 3260754

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.6	103	70-130	
1,2-Dichloroethane-d4 (S)	%			86	70-130	
Toluene-d8 (S)	%			108	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3261862 3261863

Parameter	Units	92537854012		3261862		3261863		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
1,4-Dioxane (p-Dioxane)	ug/L	3.2	20	20	24.9	23.6	109	102	64-141	5	30
1,2-Dichloroethane-d4 (S)	%						110	108	70-130		30
Toluene-d8 (S)	%						92	91	66-133		30

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

QC Batch: 619924 Analysis Method: EPA 8260D Mod.
QC Batch Method: EPA 8260D Mod. Analysis Description: 8260D MSV SIM
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92537976015, 92537976016, 92537976017, 92537976021, 92537976022

METHOD BLANK: 3261494 Matrix: Water
Associated Lab Samples: 92537976015, 92537976016, 92537976017, 92537976021, 92537976022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	05/12/21 13:11	
1,2-Dichloroethane-d4 (S)	%	106	70-130	05/12/21 13:11	
Toluene-d8 (S)	%	92	66-133	05/12/21 13:11	

LABORATORY CONTROL SAMPLE: 3261495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.0	100	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
Toluene-d8 (S)	%			93	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3261496 3261497

Parameter	Units	3261496		3261497		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92537963001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,4-Dioxane (p-Dioxane)	ug/L	291	100	100	398	381	107	90	64-141	4	30		
1,2-Dichloroethane-d4 (S)	%						108	106	70-130		30		
Toluene-d8 (S)	%						91	92	66-133		30		

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QUALIFIERS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

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.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
ES	The reported result is estimated because one or more of the constituent results are qualified as such.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537976

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92537976001	MW-27D	EPA 8260D	619721		
92537976002	MW-3	EPA 8260D	619721		
92537976003	MW-43	EPA 8260D	619721		
92537976004	MW-39	EPA 8260D	619721		
92537976005	MW-42	EPA 8260D	619721		
92537976006	MW-18	EPA 8260D	619721		
92537976007	MW-40D	EPA 8260D	619721		
92537976008	MW-38R	EPA 8260D	619721		
92537976009	MW-44	EPA 8260D	619724		
92537976010	MW-21D	EPA 8260D	619724		
92537976011	MW-41D	EPA 8260D	619724		
92537976012	MW-1D	EPA 8260D	619724		
92537976013	MW-1	EPA 8260D	619724		
92537976014	MW-22D	EPA 8260D	619724		
92537976015	MW-20	EPA 8260D	620213		
92537976016	DUP-20210509A	EPA 8260D	620213		
92537976017	MW-4	EPA 8260D	620626		
92537976018	MW-9	EPA 8260D	619724		
92537976019	MW-23D	EPA 8260D	619724		
92537976020	MW-16	EPA 8260D	620213		
92537976021	MW-16D	EPA 8260D	619724		
92537976022	DUP-20210509B	EPA 8260D	619724		
92537976023	TRIP BLANK A	EPA 8260D	619724		
92537976001	MW-27D	EPA 8260D Mod.	619692		
92537976002	MW-3	EPA 8260D Mod.	619692		
92537976003	MW-43	EPA 8260D Mod.	619692		
92537976004	MW-39	EPA 8260D Mod.	619692		
92537976005	MW-42	EPA 8260D Mod.	619694		
92537976006	MW-18	EPA 8260D Mod.	619694		
92537976007	MW-40D	EPA 8260D Mod.	619694		
92537976008	MW-38R	EPA 8260D Mod.	619694		
92537976009	MW-44	EPA 8260D Mod.	619694		
92537976010	MW-21D	EPA 8260D Mod.	619694		
92537976011	MW-41D	EPA 8260D Mod.	619694		
92537976012	MW-1D	EPA 8260D Mod.	619694		
92537976013	MW-1	EPA 8260D Mod.	619694		
92537976014	MW-22D	EPA 8260D Mod.	619694		
92537976015	MW-20	EPA 8260D Mod.	619924		
92537976016	DUP-20210509A	EPA 8260D Mod.	619924		
92537976017	MW-4	EPA 8260D Mod.	619924		
92537976018	MW-9	EPA 8260D Mod.	619694		
92537976019	MW-23D	EPA 8260D Mod.	619694		
92537976020	MW-16	EPA 8260D Mod.	619694		

REPORT OF LABORATORY ANALYSIS

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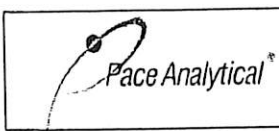
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537976

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92537976021	MW-16D	EPA 8260D Mod.	619924		
92537976022	DUP-20210509B	EPA 8260D Mod.	619924		
92537976023	TRIP BLANK A	EPA 8260D Mod.	619760		

REPORT OF LABORATORY ANALYSIS

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Document Name: **Sample Condition Upon Receipt(SCUR)**
 Document No.: **F-CAR-CS-033-Rev.07**

Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: **WSP VA**

Project **WO# : 92537976**

Carrier: Fed Ex UPS USPS Client
 Commercial Pace Other:



92537976

Custody Seal Present? Yes No
 Seals Intact? Yes No

Date/Initials Person Examining Contents: **5-11-21 LP**

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: **922064** Type of Ice: Wet Blue None

Cooler Temp: **3.32.1.4.1** Correction Factor: Add/Subtract (°C) **0.0°C**

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

Cooler Temp Corrected (°C): **1.4** **3.32.1.1.4.1.4**

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:	WT	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

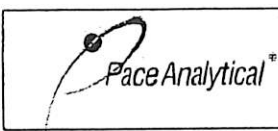
COMMENTS/SAMPLE DISCREPANCY: **According to the COC we were supposed to receive 4 wo "MW-39". We received one MW-39 sample and an extra sample "MW-48" that matches the second MW-39 Lot ID of split containers: time.**

Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____
 Project Manager SRF Review: _____ Date: _____



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

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

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

Project **WO# : 92537976**
 PM: BV Due Date: 05/18/21
 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-)	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													
3																6													
4																6													
5																6													
6																6													
7																6													
8																6													
9																6													
10																6													
11																6													
12																6													

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.



*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 bottles

Project

WO# : 92537976

PM: BV

Due Date: 05/18/21

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-)	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																5												
2																5												
3																5												
4																5												
5																5												
6																5												
7																5												
8																5												
9																5												
10																5												
11																2												
12																												

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY RECORD

WSP USA Office Address

Hendon, VA

Project Name

15060x DSTE

Project Location

Harbour MD

WSP USA Contact Name

Molly Long

WSP USA Contact E-mail

Molly.Long

@wsp.com

Project Number & Task

31401545.010 3

WSP USA Contact Phone

703 799 6050

Sampler(s) Name(s)

Molly Long

Sampler(s) Signature(s)

Molly

Sample Identification

MM-27D

Matrix

AQ

Collection Start*
Date Time

5/19/21

Collection Stop*
Date Time

10 45

Number of Containers

6

Requested Analyses & Preservatives

VOC 8260D
14-Dioxene 8260D + SIM

No. 10587

WSP

Laboratory Name & Location

Face NC

Laboratory Project Manager

Bonnie Va

Requested Turn-Around-Time

Standard 24 HR

48 HR 72 HR

___ HR 92537976

Sample Comments

001

002

003

004

005

^u
~~006~~ 006

⁵⁻¹¹
~~008~~ 007

009

010

011

012

013

014

015

Tracking Number(s)

Relinquished By (Signature)

Molly

Date

5/19/21

Time

1700

Received By (Signature)

SE Hill

Date

5-11-21

Time

1140

Shipment Method

Relinquished By (Signature)

Date

Time

Received By (Signature)

Date

Time

Shipment Method

Custody Seal Number(s)

* Use stop time/date for composite and/or all 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

WSP USA Office Address Herndon, VA		WSP USA Contact Name Molly Long		WSP USA Contact Email Molly.Long@wsp.com		WSP USA Contact Phone 703 209 6500		Laboratory Name & Location Paley, NC		Laboratory Project Manager Bonnie V		No. 10583		WSP	
Project Name Kroffek onsite		Project Location Furver, MD		Project Number & Task 3401505.01013		Sampler(s) Name(s) Molly Long		Sampler(s) Signature(s) MML		Requested Analytes & Preservatives VOC 8260D 1,4-dioxane 8260D SIM		Request Turnaround Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR			
Sample Identification	Matrix	Collection Start Date	Collection Start Time	Collection Stop Date	Collection Stop Time	Number of Containers	Requested Analytes & Preservatives	Sample Comments	Tracking Number(s)	Custody Seal Number(s)					
DUP-20210509A	AQ	5/9/21	08 00			6		016							
MW-4			16 55			6		017							
MW-9			17 05			6		018							
MW-23D			17 15			6		019							
MW-16			17 50			6		020							
MW-161D			18 00			6		021							
DUP-20210509B			09 00			6		022							
Tap Blank A			Lab provided			4		023							
Relinquished By (Signature) MML		Date 5/10/21	Time 12:00	Received By (Signature) SSE HLL		Date 5-11-21	Time 11:40	Shipment Method Fedex		Tracking Number(s)					
Relinquished By (Signature)		Date	Time	Received By (Signature)		Date	Time	Shipment Method Number of Packages		Tracking Number(s)					

* Use stop time/date for composite and/or all 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)

May 14, 2021

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

RE: Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

Dear Eric Johnson:

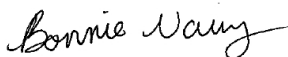
Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,



Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Molly Long, WSP
Pam Robertson, WSP USA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537963

Pace Analytical Services Charlotte

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

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SAMPLE SUMMARY

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537963

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92537963001	RW-1S	Water	05/09/21 13:35	05/11/21 11:40
92537963002	RW-2S	Water	05/09/21 13:45	05/11/21 11:40
92537963003	RW-3S	Water	05/09/21 14:15	05/11/21 11:40
92537963004	RW-1D	Water	05/09/21 14:40	05/11/21 11:40
92537963005	RW-2D	Water	05/09/21 15:40	05/11/21 11:40

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SAMPLE ANALYTE COUNT

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537963

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92537963001	RW-1S	EPA 8260D	BSH	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537963002	RW-2S	EPA 8260D	BSH	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537963003	RW-3S	EPA 8260D	PM1	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537963004	RW-1D	EPA 8260D	BSH	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537963005	RW-2D	EPA 8260D	PM1	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537963

Sample: RW-1S	Lab ID: 92537963001	Collected: 05/09/21 13:35	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	62.5	2.5		05/13/21 18:15	67-64-1	v1
Benzene	ND	ug/L	2.5	2.5		05/13/21 18:15	71-43-2	
Bromobenzene	ND	ug/L	2.5	2.5		05/13/21 18:15	108-86-1	
Bromochloromethane	ND	ug/L	2.5	2.5		05/13/21 18:15	74-97-5	
Bromodichloromethane	ND	ug/L	2.5	2.5		05/13/21 18:15	75-27-4	
Bromoform	ND	ug/L	2.5	2.5		05/13/21 18:15	75-25-2	
Bromomethane	ND	ug/L	5.0	2.5		05/13/21 18:15	74-83-9	IK
2-Butanone (MEK)	ND	ug/L	12.5	2.5		05/13/21 18:15	78-93-3	
Carbon tetrachloride	ND	ug/L	2.5	2.5		05/13/21 18:15	56-23-5	
Chlorobenzene	ND	ug/L	2.5	2.5		05/13/21 18:15	108-90-7	
Chloroethane	15.0	ug/L	2.5	2.5		05/13/21 18:15	75-00-3	
Chloroform	ND	ug/L	12.5	2.5		05/13/21 18:15	67-66-3	
Chloromethane	ND	ug/L	2.5	2.5		05/13/21 18:15	74-87-3	
2-Chlorotoluene	ND	ug/L	2.5	2.5		05/13/21 18:15	95-49-8	
4-Chlorotoluene	ND	ug/L	2.5	2.5		05/13/21 18:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5		05/13/21 18:15	96-12-8	
Dibromochloromethane	ND	ug/L	2.5	2.5		05/13/21 18:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.5	2.5		05/13/21 18:15	106-93-4	
Dibromomethane	ND	ug/L	2.5	2.5		05/13/21 18:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.5	2.5		05/13/21 18:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.5	2.5		05/13/21 18:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.5	2.5		05/13/21 18:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.5	2.5		05/13/21 18:15	75-71-8	
1,1-Dichloroethane	113	ug/L	2.5	2.5		05/13/21 18:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.5	2.5		05/13/21 18:15	107-06-2	
1,1-Dichloroethene	389	ug/L	2.5	2.5		05/13/21 18:15	75-35-4	
cis-1,2-Dichloroethene	2.9	ug/L	2.5	2.5		05/13/21 18:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.5	2.5		05/13/21 18:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.5	2.5		05/13/21 18:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.5	2.5		05/13/21 18:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.5	2.5		05/13/21 18:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.5	2.5		05/13/21 18:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.5	2.5		05/13/21 18:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	2.5		05/13/21 18:15	10061-02-6	
Diisopropyl ether	ND	ug/L	2.5	2.5		05/13/21 18:15	108-20-3	
Ethylbenzene	ND	ug/L	2.5	2.5		05/13/21 18:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	2.5		05/13/21 18:15	87-68-3	
2-Hexanone	ND	ug/L	12.5	2.5		05/13/21 18:15	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.5	2.5		05/13/21 18:15	99-87-6	
Methylene Chloride	ND	ug/L	12.5	2.5		05/13/21 18:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	12.5	2.5		05/13/21 18:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.5	2.5		05/13/21 18:15	1634-04-4	
Naphthalene	ND	ug/L	2.5	2.5		05/13/21 18:15	91-20-3	
Styrene	ND	ug/L	2.5	2.5		05/13/21 18:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	2.5		05/13/21 18:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	2.5		05/13/21 18:15	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

Sample: RW-1S		Lab ID: 92537963001		Collected: 05/09/21 13:35		Received: 05/11/21 11:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV Low Level									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Tetrachloroethene	ND	ug/L	2.5	2.5		05/13/21 18:15	127-18-4		
Toluene	ND	ug/L	2.5	2.5		05/13/21 18:15	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	2.5	2.5		05/13/21 18:15	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	2.5	2.5		05/13/21 18:15	120-82-1		
1,1,1-Trichloroethane	72.5	ug/L	2.5	2.5		05/13/21 18:15	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	2.5	2.5		05/13/21 18:15	79-00-5		
Trichloroethene	2.9	ug/L	2.5	2.5		05/13/21 18:15	79-01-6		
Trichlorofluoromethane	ND	ug/L	2.5	2.5		05/13/21 18:15	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	2.5		05/13/21 18:15	96-18-4		
Vinyl acetate	ND	ug/L	5.0	2.5		05/13/21 18:15	108-05-4		
Vinyl chloride	4.2	ug/L	2.5	2.5		05/13/21 18:15	75-01-4		
Xylene (Total)	ND	ug/L	2.5	2.5		05/13/21 18:15	1330-20-7		
m&p-Xylene	ND	ug/L	5.0	2.5		05/13/21 18:15	179601-23-1		
o-Xylene	ND	ug/L	2.5	2.5		05/13/21 18:15	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130	2.5		05/13/21 18:15	460-00-4		
1,2-Dichloroethane-d4 (S)	98	%	70-130	2.5		05/13/21 18:15	17060-07-0		
Toluene-d8 (S)	93	%	70-130	2.5		05/13/21 18:15	2037-26-5		
8260D MSV SIM									
Analytical Method: EPA 8260D Mod.									
Pace Analytical Services - Charlotte									
1,4-Dioxane (p-Dioxane)	291	ug/L	10.0	5		05/12/21 13:50	123-91-1		
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%	70-130	5		05/12/21 13:50	17060-07-0		
Toluene-d8 (S)	92	%	66-133	5		05/12/21 13:50	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537963

Sample: RW-2S	Lab ID: 92537963002	Collected: 05/09/21 13:45	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	50.0	2		05/13/21 17:03	67-64-1	v1
Benzene	ND	ug/L	2.0	2		05/13/21 17:03	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		05/13/21 17:03	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		05/13/21 17:03	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		05/13/21 17:03	75-27-4	
Bromoform	ND	ug/L	2.0	2		05/13/21 17:03	75-25-2	
Bromomethane	ND	ug/L	4.0	2		05/13/21 17:03	74-83-9	IK
2-Butanone (MEK)	ND	ug/L	10.0	2		05/13/21 17:03	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		05/13/21 17:03	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		05/13/21 17:03	108-90-7	
Chloroethane	ND	ug/L	2.0	2		05/13/21 17:03	75-00-3	
Chloroform	ND	ug/L	10.0	2		05/13/21 17:03	67-66-3	
Chloromethane	ND	ug/L	2.0	2		05/13/21 17:03	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		05/13/21 17:03	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		05/13/21 17:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2		05/13/21 17:03	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		05/13/21 17:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		05/13/21 17:03	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		05/13/21 17:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		05/13/21 17:03	75-71-8	
1,1-Dichloroethane	32.4	ug/L	2.0	2		05/13/21 17:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		05/13/21 17:03	107-06-2	
1,1-Dichloroethene	184	ug/L	2.0	2		05/13/21 17:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		05/13/21 17:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		05/13/21 17:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		05/13/21 17:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		05/13/21 17:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		05/13/21 17:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		05/13/21 17:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		05/13/21 17:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		05/13/21 17:03	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		05/13/21 17:03	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		05/13/21 17:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	2		05/13/21 17:03	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		05/13/21 17:03	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		05/13/21 17:03	99-87-6	
Methylene Chloride	ND	ug/L	10.0	2		05/13/21 17:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		05/13/21 17:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		05/13/21 17:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		05/13/21 17:03	91-20-3	
Styrene	ND	ug/L	2.0	2		05/13/21 17:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		05/13/21 17:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		05/13/21 17:03	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

Sample: RW-2S		Lab ID: 92537963002		Collected: 05/09/21 13:45	Received: 05/11/21 11:40	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	2.0	2		05/13/21 17:03	127-18-4	
Toluene	ND	ug/L	2.0	2		05/13/21 17:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:03	120-82-1	
1,1,1-Trichloroethane	221	ug/L	2.0	2		05/13/21 17:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		05/13/21 17:03	79-00-5	
Trichloroethene	2.1	ug/L	2.0	2		05/13/21 17:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		05/13/21 17:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		05/13/21 17:03	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		05/13/21 17:03	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		05/13/21 17:03	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		05/13/21 17:03	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		05/13/21 17:03	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		05/13/21 17:03	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	2		05/13/21 17:03	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	2		05/13/21 17:03	17060-07-0	
Toluene-d8 (S)	99	%	70-130	2		05/13/21 17:03	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	153	ug/L	5.0	2.5		05/12/21 14:10	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	70-130	2.5		05/12/21 14:10	17060-07-0	
Toluene-d8 (S)	94	%	66-133	2.5		05/12/21 14:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

Sample: RW-3S	Lab ID: 92537963003	Collected: 05/09/21 14:15	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 16:37	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 16:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 16:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 16:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 16:37	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 16:37	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 16:37	74-83-9	IK,v2
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 16:37	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 16:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 16:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 16:37	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 16:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 16:37	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 16:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 16:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 16:37	96-12-8	M1
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 16:37	124-48-1	M1
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 16:37	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 16:37	74-95-3	M1
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 16:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 16:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 16:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 16:37	75-71-8	
1,1-Dichloroethane	2.7	ug/L	1.0	1		05/12/21 16:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 16:37	107-06-2	
1,1-Dichloroethene	4.2	ug/L	1.0	1		05/12/21 16:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 16:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 16:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 16:37	78-87-5	M1
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 16:37	142-28-9	M1
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 16:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 16:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 16:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 16:37	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 16:37	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 16:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 16:37	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 16:37	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 16:37	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 16:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 16:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 16:37	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 16:37	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 16:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 16:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 16:37	79-34-5	M1

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537963

Sample: RW-3S		Lab ID: 92537963003		Collected: 05/09/21 14:15	Received: 05/11/21 11:40	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 16:37	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 16:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 16:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 16:37	120-82-1	
1,1,1-Trichloroethane	8.1	ug/L	1.0	1		05/12/21 16:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 16:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 16:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 16:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 16:37	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 16:37	108-05-4	v1
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 16:37	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 16:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 16:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 16:37	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 16:37	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		05/12/21 16:37	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 16:37	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	13.2	ug/L	2.0	1		05/11/21 16:08	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		05/11/21 16:08	17060-07-0	
Toluene-d8 (S)	112	%	66-133	1		05/11/21 16:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537963

Sample: RW-1D	Lab ID: 92537963004	Collected: 05/09/21 14:40	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	50.0	2		05/13/21 17:21	67-64-1	v1
Benzene	ND	ug/L	2.0	2		05/13/21 17:21	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		05/13/21 17:21	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		05/13/21 17:21	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		05/13/21 17:21	75-27-4	
Bromoform	ND	ug/L	2.0	2		05/13/21 17:21	75-25-2	
Bromomethane	ND	ug/L	4.0	2		05/13/21 17:21	74-83-9	IK
2-Butanone (MEK)	ND	ug/L	10.0	2		05/13/21 17:21	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		05/13/21 17:21	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		05/13/21 17:21	108-90-7	
Chloroethane	5.9	ug/L	2.0	2		05/13/21 17:21	75-00-3	
Chloroform	ND	ug/L	10.0	2		05/13/21 17:21	67-66-3	
Chloromethane	ND	ug/L	2.0	2		05/13/21 17:21	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		05/13/21 17:21	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		05/13/21 17:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2		05/13/21 17:21	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		05/13/21 17:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		05/13/21 17:21	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		05/13/21 17:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		05/13/21 17:21	75-71-8	
1,1-Dichloroethane	52.4	ug/L	2.0	2		05/13/21 17:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		05/13/21 17:21	107-06-2	
1,1-Dichloroethene	204	ug/L	2.0	2		05/13/21 17:21	75-35-4	
cis-1,2-Dichloroethene	2.3	ug/L	2.0	2		05/13/21 17:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		05/13/21 17:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		05/13/21 17:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		05/13/21 17:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		05/13/21 17:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		05/13/21 17:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		05/13/21 17:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		05/13/21 17:21	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		05/13/21 17:21	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		05/13/21 17:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	2		05/13/21 17:21	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		05/13/21 17:21	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		05/13/21 17:21	99-87-6	
Methylene Chloride	ND	ug/L	10.0	2		05/13/21 17:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		05/13/21 17:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		05/13/21 17:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		05/13/21 17:21	91-20-3	
Styrene	ND	ug/L	2.0	2		05/13/21 17:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		05/13/21 17:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		05/13/21 17:21	79-34-5	

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

Sample: RW-1D		Lab ID: 92537963004		Collected: 05/09/21 14:40		Received: 05/11/21 11:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	2.0	2		05/13/21 17:21	127-18-4		
Toluene	ND	ug/L	2.0	2		05/13/21 17:21	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:21	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		05/13/21 17:21	120-82-1		
1,1,1-Trichloroethane	5.5	ug/L	2.0	2		05/13/21 17:21	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	2.0	2		05/13/21 17:21	79-00-5		
Trichloroethene	ND	ug/L	2.0	2		05/13/21 17:21	79-01-6		
Trichlorofluoromethane	ND	ug/L	2.0	2		05/13/21 17:21	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.0	2		05/13/21 17:21	96-18-4		
Vinyl acetate	ND	ug/L	4.0	2		05/13/21 17:21	108-05-4		
Vinyl chloride	ND	ug/L	2.0	2		05/13/21 17:21	75-01-4		
Xylene (Total)	ND	ug/L	2.0	2		05/13/21 17:21	1330-20-7		
m&p-Xylene	ND	ug/L	4.0	2		05/13/21 17:21	179601-23-1		
o-Xylene	ND	ug/L	2.0	2		05/13/21 17:21	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130	2		05/13/21 17:21	460-00-4		
1,2-Dichloroethane-d4 (S)	99	%	70-130	2		05/13/21 17:21	17060-07-0		
Toluene-d8 (S)	98	%	70-130	2		05/13/21 17:21	2037-26-5		
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	77.7	ug/L	2.0	1		05/11/21 16:27	123-91-1		
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/11/21 16:27	17060-07-0		
Toluene-d8 (S)	111	%	66-133	1		05/11/21 16:27	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

Sample: RW-2D	Lab ID: 92537963005	Collected: 05/09/21 15:40	Received: 05/11/21 11:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/12/21 16:55	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 16:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 16:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 16:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 16:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 16:55	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 16:55	74-83-9	IK,v2
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 16:55	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 16:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 16:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 16:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 16:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 16:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 16:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 16:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 16:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 16:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 16:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 16:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 16:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 16:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 16:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 16:55	75-71-8	
1,1-Dichloroethane	16.8	ug/L	1.0	1		05/12/21 16:55	75-34-3	
1,2-Dichloroethane	1.1	ug/L	1.0	1		05/12/21 16:55	107-06-2	
1,1-Dichloroethene	104	ug/L	1.0	1		05/12/21 16:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 16:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 16:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 16:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 16:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 16:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 16:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 16:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 16:55	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 16:55	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 16:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 16:55	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 16:55	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 16:55	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 16:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 16:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 16:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 16:55	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 16:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 16:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 16:55	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

Sample: RW-2D		Lab ID: 92537963005	Collected: 05/09/21 15:40	Received: 05/11/21 11:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 16:55	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 16:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 16:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 16:55	120-82-1	
1,1,1-Trichloroethane	4.2	ug/L	1.0	1		05/12/21 16:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 16:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 16:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 16:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 16:55	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 16:55	108-05-4	v1
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 16:55	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 16:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 16:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 16:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		05/12/21 16:55	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		05/12/21 16:55	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		05/12/21 16:55	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	62.8	ug/L	2.0	1		05/11/21 16:46	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		05/11/21 16:46	17060-07-0	
Toluene-d8 (S)	111	%	66-133	1		05/11/21 16:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

QC Batch: 619922 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92537963003, 92537963005

METHOD BLANK: 3261486 Matrix: Water
Associated Lab Samples: 92537963003, 92537963005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/12/21 15:07	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/12/21 15:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/12/21 15:07	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/12/21 15:07	
1,1-Dichloroethane	ug/L	ND	1.0	05/12/21 15:07	
1,1-Dichloroethene	ug/L	ND	1.0	05/12/21 15:07	
1,1-Dichloropropene	ug/L	ND	1.0	05/12/21 15:07	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/12/21 15:07	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/12/21 15:07	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/12/21 15:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/12/21 15:07	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/12/21 15:07	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/12/21 15:07	
1,2-Dichloroethane	ug/L	ND	1.0	05/12/21 15:07	
1,2-Dichloropropane	ug/L	ND	1.0	05/12/21 15:07	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/12/21 15:07	
1,3-Dichloropropane	ug/L	ND	1.0	05/12/21 15:07	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/12/21 15:07	
2,2-Dichloropropane	ug/L	ND	1.0	05/12/21 15:07	
2-Butanone (MEK)	ug/L	ND	5.0	05/12/21 15:07	
2-Chlorotoluene	ug/L	ND	1.0	05/12/21 15:07	
2-Hexanone	ug/L	ND	5.0	05/12/21 15:07	
4-Chlorotoluene	ug/L	ND	1.0	05/12/21 15:07	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/12/21 15:07	
Acetone	ug/L	ND	25.0	05/12/21 15:07	
Benzene	ug/L	ND	1.0	05/12/21 15:07	
Bromobenzene	ug/L	ND	1.0	05/12/21 15:07	
Bromochloromethane	ug/L	ND	1.0	05/12/21 15:07	
Bromodichloromethane	ug/L	ND	1.0	05/12/21 15:07	
Bromoform	ug/L	ND	1.0	05/12/21 15:07	
Bromomethane	ug/L	ND	2.0	05/12/21 15:07	IK,v2
Carbon tetrachloride	ug/L	ND	1.0	05/12/21 15:07	
Chlorobenzene	ug/L	ND	1.0	05/12/21 15:07	
Chloroethane	ug/L	ND	1.0	05/12/21 15:07	
Chloroform	ug/L	ND	5.0	05/12/21 15:07	
Chloromethane	ug/L	ND	1.0	05/12/21 15:07	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/12/21 15:07	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/12/21 15:07	
Dibromochloromethane	ug/L	ND	1.0	05/12/21 15:07	
Dibromomethane	ug/L	ND	1.0	05/12/21 15:07	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537963

METHOD BLANK: 3261486

Matrix: Water

Associated Lab Samples: 92537963003, 92537963005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/12/21 15:07	
Diisopropyl ether	ug/L	ND	1.0	05/12/21 15:07	
Ethylbenzene	ug/L	ND	1.0	05/12/21 15:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	05/12/21 15:07	
m&p-Xylene	ug/L	ND	2.0	05/12/21 15:07	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/12/21 15:07	
Methylene Chloride	ug/L	ND	5.0	05/12/21 15:07	
Naphthalene	ug/L	ND	1.0	05/12/21 15:07	
o-Xylene	ug/L	ND	1.0	05/12/21 15:07	
p-Isopropyltoluene	ug/L	ND	1.0	05/12/21 15:07	
Styrene	ug/L	ND	1.0	05/12/21 15:07	
Tetrachloroethene	ug/L	ND	1.0	05/12/21 15:07	
Toluene	ug/L	ND	1.0	05/12/21 15:07	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/12/21 15:07	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/12/21 15:07	
Trichloroethene	ug/L	ND	1.0	05/12/21 15:07	
Trichlorofluoromethane	ug/L	ND	1.0	05/12/21 15:07	
Vinyl acetate	ug/L	ND	2.0	05/12/21 15:07	v1
Vinyl chloride	ug/L	ND	1.0	05/12/21 15:07	
Xylene (Total)	ug/L	ND	1.0	05/12/21 15:07	
1,2-Dichloroethane-d4 (S)	%	98	70-130	05/12/21 15:07	
4-Bromofluorobenzene (S)	%	99	70-130	05/12/21 15:07	
Toluene-d8 (S)	%	97	70-130	05/12/21 15:07	

LABORATORY CONTROL SAMPLE: 3261487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.5	105	70-130	
1,1,1-Trichloroethane	ug/L	50	47.4	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	55.9	112	70-130	
1,1,2-Trichloroethane	ug/L	50	52.3	105	70-130	
1,1-Dichloroethane	ug/L	50	49.5	99	70-130	
1,1-Dichloroethene	ug/L	50	46.7	93	70-132	
1,1-Dichloropropene	ug/L	50	48.8	98	70-131	
1,2,3-Trichlorobenzene	ug/L	50	53.7	107	70-134	
1,2,3-Trichloropropane	ug/L	50	52.9	106	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.6	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	57.7	115	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	53.8	108	70-130	
1,2-Dichlorobenzene	ug/L	50	48.5	97	70-130	
1,2-Dichloroethane	ug/L	50	48.5	97	70-130	
1,2-Dichloropropane	ug/L	50	52.6	105	70-130	
1,3-Dichlorobenzene	ug/L	50	48.4	97	70-130	
1,3-Dichloropropane	ug/L	50	53.0	106	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

LABORATORY CONTROL SAMPLE: 3261487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	49.5	99	70-130	
2,2-Dichloropropane	ug/L	50	49.7	99	70-130	
2-Butanone (MEK)	ug/L	100	110	110	70-133	
2-Chlorotoluene	ug/L	50	49.6	99	70-130	
2-Hexanone	ug/L	100	113	113	70-130	
4-Chlorotoluene	ug/L	50	48.1	96	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	70-130	
Acetone	ug/L	100	118	118	70-144	
Benzene	ug/L	50	51.8	104	70-130	
Bromobenzene	ug/L	50	49.3	99	70-130	
Bromochloromethane	ug/L	50	52.7	105	70-130	
Bromodichloromethane	ug/L	50	51.3	103	70-130	
Bromoform	ug/L	50	54.8	110	70-131	
Bromomethane	ug/L	50	37.1	74	30-177	IK,v3
Carbon tetrachloride	ug/L	50	50.4	101	70-130	
Chlorobenzene	ug/L	50	51.8	104	70-130	
Chloroethane	ug/L	50	51.6	103	46-131	
Chloroform	ug/L	50	50.4	101	70-130	
Chloromethane	ug/L	50	41.3	83	49-130	
cis-1,2-Dichloroethene	ug/L	50	49.2	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.1	106	70-130	
Dibromochloromethane	ug/L	50	54.8	110	70-130	
Dibromomethane	ug/L	50	54.4	109	70-130	
Dichlorodifluoromethane	ug/L	50	38.5	77	52-134	
Diisopropyl ether	ug/L	50	49.0	98	70-131	
Ethylbenzene	ug/L	50	51.3	103	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.4	103	70-131	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	50.2	100	70-130	
Methylene Chloride	ug/L	50	41.8	84	68-130	
Naphthalene	ug/L	50	54.6	109	70-133	
o-Xylene	ug/L	50	52.4	105	70-130	
p-Isopropyltoluene	ug/L	50	49.9	100	70-130	
Styrene	ug/L	50	53.0	106	70-130	
Tetrachloroethene	ug/L	50	49.4	99	70-130	
Toluene	ug/L	50	50.1	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.1	104	70-130	
Trichloroethene	ug/L	50	51.2	102	70-130	
Trichlorofluoromethane	ug/L	50	40.2	80	61-130	
Vinyl acetate	ug/L	100	113	113	70-140	v1
Vinyl chloride	ug/L	50	44.3	89	59-142	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537963

Parameter	Units	92537963003		MSD		3261488		3261489		% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	24.0	26.6	120	133	70-135	11	30			
1,1,1-Trichloroethane	ug/L	8.1	20	20	32.7	34.0	123	129	70-148	4	30			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	25.6	28.0	128	140	70-131	9	30	M1		
1,1,2-Trichloroethane	ug/L	ND	20	20	24.8	26.5	124	133	70-136	7	30			
1,1-Dichloroethane	ug/L	2.7	20	20	28.3	30.2	128	138	70-147	7	30			
1,1-Dichloroethene	ug/L	4.2	20	20	29.0	30.2	124	130	70-158	4	30			
1,1-Dichloropropene	ug/L	ND	20	20	25.3	27.6	126	138	70-149	9	30			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.0	25.7	115	128	68-140	11	30			
1,2,3-Trichloropropane	ug/L	ND	20	20	24.0	26.3	120	132	67-137	9	30			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.5	24.8	112	124	70-139	10	30			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	23.9	27.3	120	137	69-136	13	30	M1		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	24.2	26.9	121	134	70-137	11	30			
1,2-Dichlorobenzene	ug/L	ND	20	20	22.2	24.3	111	121	70-133	9	30			
1,2-Dichloroethane	ug/L	ND	20	20	23.9	25.7	119	128	67-138	7	30			
1,2-Dichloropropane	ug/L	ND	20	20	27.4	28.6	137	143	70-138	4	30	M1		
1,3-Dichlorobenzene	ug/L	ND	20	20	22.7	24.4	114	122	70-133	7	30			
1,3-Dichloropropane	ug/L	ND	20	20	25.1	27.7	125	138	70-136	10	30	M1		
1,4-Dichlorobenzene	ug/L	ND	20	20	22.4	24.6	112	123	70-133	9	30			
2,2-Dichloropropane	ug/L	ND	20	20	25.6	27.9	128	139	52-155	9	30			
2-Butanone (MEK)	ug/L	ND	40	40	51.3	56.8	128	142	61-147	10	30			
2-Chlorotoluene	ug/L	ND	20	20	23.3	25.3	117	127	70-141	8	30			
2-Hexanone	ug/L	ND	40	40	49.7	55.7	124	139	67-139	11	30			
4-Chlorotoluene	ug/L	ND	20	20	22.8	24.7	114	123	70-135	8	30			
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	49.7	53.7	124	134	67-136	8	30			
Acetone	ug/L	ND	40	40	52.3	57.2	131	143	55-159	9	30	v1		
Benzene	ug/L	ND	20	20	26.0	29.4	130	147	67-150	12	30			
Bromobenzene	ug/L	ND	20	20	23.3	25.1	116	125	70-134	8	30			
Bromochloromethane	ug/L	ND	20	20	26.0	27.4	130	137	70-146	5	30			
Bromodichloromethane	ug/L	ND	20	20	25.2	26.5	126	133	70-138	5	30			
Bromoform	ug/L	ND	20	20	23.3	26.0	116	130	57-138	11	30			
Bromomethane	ug/L	ND	20	20	22.2	23.1	111	116	10-200	4	30	IK		
Carbon tetrachloride	ug/L	ND	20	20	25.3	27.9	126	140	70-147	10	30			
Chlorobenzene	ug/L	ND	20	20	24.7	26.9	124	135	70-137	8	30			
Chloroethane	ug/L	ND	20	20	26.6	27.4	133	137	51-166	3	30			
Chloroform	ug/L	ND	20	20	26.0	27.9	130	139	70-144	7	30			
Chloromethane	ug/L	ND	20	20	24.3	27.9	121	139	24-161	14	30			
cis-1,2-Dichloroethene	ug/L	ND	20	20	25.6	27.3	128	136	67-148	6	30			
cis-1,3-Dichloropropene	ug/L	ND	20	20	25.1	25.9	126	129	70-142	3	30			
Dibromochloromethane	ug/L	ND	20	20	24.6	27.7	123	139	68-138	12	30	M1		
Dibromomethane	ug/L	ND	20	20	25.6	27.4	128	137	70-134	7	30	M1		
Dichlorodifluoromethane	ug/L	ND	20	20	20.0	21.8	100	109	43-155	9	30			
Diisopropyl ether	ug/L	ND	20	20	24.1	25.8	120	129	65-146	7	30			
Ethylbenzene	ug/L	ND	20	20	24.2	26.6	121	133	68-143	9	30			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	25.8	26.2	129	131	62-151	2	30			

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537963

Parameter	Units	92537963003		3261488		3261489		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
m&p-Xylene	ug/L	ND	40	40	48.2	52.7	120	132	53-157	9	30			
Methyl-tert-butyl ether	ug/L	ND	20	20	23.8	26.7	119	133	59-156	11	30			
Methylene Chloride	ug/L	ND	20	20	17.9	21.0	90	105	64-148	16	30			
Naphthalene	ug/L	ND	20	20	22.5	25.3	112	127	57-150	12	30			
o-Xylene	ug/L	ND	20	20	23.8	26.1	119	130	68-143	9	30			
p-Isopropyltoluene	ug/L	ND	20	20	23.3	24.8	116	124	70-141	6	30			
Styrene	ug/L	ND	20	20	23.9	26.2	120	131	70-136	9	30			
Tetrachloroethene	ug/L	ND	20	20	23.4	26.6	117	133	70-139	13	30			
Toluene	ug/L	ND	20	20	24.8	25.6	124	128	47-157	3	30			
trans-1,2-Dichloroethene	ug/L	ND	20	20	26.1	29.0	131	145	70-149	11	30			
trans-1,3-Dichloropropene	ug/L	ND	20	20	24.2	26.1	121	131	70-138	8	30			
Trichloroethene	ug/L	ND	20	20	25.3	27.3	127	136	70-149	7	30			
Trichlorofluoromethane	ug/L	ND	20	20	22.1	23.6	110	118	61-154	7	30			
Vinyl acetate	ug/L	ND	40	40	53.9	57.8	135	145	48-156	7	30			
Vinyl chloride	ug/L	ND	20	20	23.8	27.3	119	136	55-172	14	30			
Xylene (Total)	ug/L	ND	60	60	71.9	78.7	120	131	66-145	9	30			
1,2-Dichloroethane-d4 (S)	%						97	90	70-130					
4-Bromofluorobenzene (S)	%						101	101	70-130					
Toluene-d8 (S)	%						100	96	70-130					

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

QC Batch: 620213 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92537963001, 92537963002, 92537963004

METHOD BLANK: 3263117 Matrix: Water
Associated Lab Samples: 92537963001, 92537963002, 92537963004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1-Dichloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1-Dichloroethene	ug/L	ND	1.0	05/13/21 12:16	
1,1-Dichloropropene	ug/L	ND	1.0	05/13/21 12:16	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/13/21 12:16	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/13/21 12:16	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dichloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dichloropropane	ug/L	ND	1.0	05/13/21 12:16	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
1,3-Dichloropropane	ug/L	ND	1.0	05/13/21 12:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
2,2-Dichloropropane	ug/L	ND	1.0	05/13/21 12:16	
2-Butanone (MEK)	ug/L	ND	5.0	05/13/21 12:16	
2-Chlorotoluene	ug/L	ND	1.0	05/13/21 12:16	
2-Hexanone	ug/L	ND	5.0	05/13/21 12:16	
4-Chlorotoluene	ug/L	ND	1.0	05/13/21 12:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/13/21 12:16	
Acetone	ug/L	ND	25.0	05/13/21 12:16	v1
Benzene	ug/L	ND	1.0	05/13/21 12:16	
Bromobenzene	ug/L	ND	1.0	05/13/21 12:16	
Bromochloromethane	ug/L	ND	1.0	05/13/21 12:16	
Bromodichloromethane	ug/L	ND	1.0	05/13/21 12:16	
Bromoform	ug/L	ND	1.0	05/13/21 12:16	
Bromomethane	ug/L	ND	2.0	05/13/21 12:16	IK
Carbon tetrachloride	ug/L	ND	1.0	05/13/21 12:16	
Chlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
Chloroethane	ug/L	ND	1.0	05/13/21 12:16	
Chloroform	ug/L	ND	5.0	05/13/21 12:16	
Chloromethane	ug/L	ND	1.0	05/13/21 12:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/13/21 12:16	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/13/21 12:16	
Dibromochloromethane	ug/L	ND	1.0	05/13/21 12:16	
Dibromomethane	ug/L	ND	1.0	05/13/21 12:16	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

METHOD BLANK: 3263117 Matrix: Water

Associated Lab Samples: 92537963001, 92537963002, 92537963004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/13/21 12:16	
Diisopropyl ether	ug/L	ND	1.0	05/13/21 12:16	
Ethylbenzene	ug/L	ND	1.0	05/13/21 12:16	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	05/13/21 12:16	
m&p-Xylene	ug/L	ND	2.0	05/13/21 12:16	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/13/21 12:16	
Methylene Chloride	ug/L	ND	5.0	05/13/21 12:16	
Naphthalene	ug/L	ND	1.0	05/13/21 12:16	
o-Xylene	ug/L	ND	1.0	05/13/21 12:16	
p-Isopropyltoluene	ug/L	ND	1.0	05/13/21 12:16	
Styrene	ug/L	ND	1.0	05/13/21 12:16	
Tetrachloroethene	ug/L	ND	1.0	05/13/21 12:16	
Toluene	ug/L	ND	1.0	05/13/21 12:16	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/13/21 12:16	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/13/21 12:16	
Trichloroethene	ug/L	ND	1.0	05/13/21 12:16	
Trichlorofluoromethane	ug/L	ND	1.0	05/13/21 12:16	
Vinyl acetate	ug/L	ND	2.0	05/13/21 12:16	
Vinyl chloride	ug/L	ND	1.0	05/13/21 12:16	
Xylene (Total)	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dichloroethane-d4 (S)	%	97	70-130	05/13/21 12:16	
4-Bromofluorobenzene (S)	%	98	70-130	05/13/21 12:16	
Toluene-d8 (S)	%	99	70-130	05/13/21 12:16	

LABORATORY CONTROL SAMPLE: 3263118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.4	107	70-130	
1,1,1-Trichloroethane	ug/L	50	49.1	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	57.2	114	70-130	
1,1,2-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1-Dichloroethane	ug/L	50	54.2	108	70-130	
1,1-Dichloroethene	ug/L	50	49.5	99	70-132	
1,1-Dichloropropene	ug/L	50	50.7	101	70-131	
1,2,3-Trichlorobenzene	ug/L	50	54.9	110	70-134	
1,2,3-Trichloropropane	ug/L	50	55.1	110	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.1	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	58.5	117	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	53.5	107	70-130	
1,2-Dichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dichloroethane	ug/L	50	50.0	100	70-130	
1,2-Dichloropropane	ug/L	50	54.1	108	70-130	
1,3-Dichlorobenzene	ug/L	50	50.4	101	70-130	
1,3-Dichloropropane	ug/L	50	53.3	107	70-130	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

LABORATORY CONTROL SAMPLE: 3263118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
2,2-Dichloropropane	ug/L	50	51.3	103	70-130	
2-Butanone (MEK)	ug/L	100	117	117	70-133	
2-Chlorotoluene	ug/L	50	50.9	102	70-130	
2-Hexanone	ug/L	100	117	117	70-130	
4-Chlorotoluene	ug/L	50	50.3	101	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	70-130	
Acetone	ug/L	100	128	128	70-144 v1	
Benzene	ug/L	50	53.2	106	70-130	
Bromobenzene	ug/L	50	50.3	101	70-130	
Bromochloromethane	ug/L	50	53.6	107	70-130	
Bromodichloromethane	ug/L	50	51.6	103	70-130	
Bromoform	ug/L	50	54.8	110	70-131	
Bromomethane	ug/L	50	36.7	73	30-177 IK	
Carbon tetrachloride	ug/L	50	50.5	101	70-130	
Chlorobenzene	ug/L	50	52.6	105	70-130	
Chloroethane	ug/L	50	50.9	102	46-131	
Chloroform	ug/L	50	52.7	105	70-130	
Chloromethane	ug/L	50	52.9	106	49-130	
cis-1,2-Dichloroethene	ug/L	50	52.3	105	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.4	105	70-130	
Dibromochloromethane	ug/L	50	55.1	110	70-130	
Dibromomethane	ug/L	50	53.3	107	70-130	
Dichlorodifluoromethane	ug/L	50	37.4	75	52-134	
Diisopropyl ether	ug/L	50	53.8	108	70-131	
Ethylbenzene	ug/L	50	51.9	104	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.1	108	70-131	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	53.6	107	70-130	
Methylene Chloride	ug/L	50	46.9	94	68-130	
Naphthalene	ug/L	50	56.3	113	70-133	
o-Xylene	ug/L	50	52.2	104	70-130	
p-Isopropyltoluene	ug/L	50	50.5	101	70-130	
Styrene	ug/L	50	53.4	107	70-130	
Tetrachloroethene	ug/L	50	49.9	100	70-130	
Toluene	ug/L	50	49.0	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	55.8	112	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.2	102	70-130	
Trichloroethene	ug/L	50	51.4	103	70-130	
Trichlorofluoromethane	ug/L	50	41.7	83	61-130	
Vinyl acetate	ug/L	100	122	122	70-140	
Vinyl chloride	ug/L	50	47.5	95	59-142	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			95	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

Parameter	Units	3263119		3263120		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92537746001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	582	433	146	108	70-135	29	30	M1	
1,1,1-Trichloroethane	ug/L	ND	400	400	589	438	147	110	70-148	29	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	618	453	154	113	70-131	31	30	M1,R1	
1,1,2-Trichloroethane	ug/L	ND	400	400	581	426	145	106	70-136	31	30	M1,R1	
1,1-Dichloroethane	ug/L	ND	400	400	640	472	160	118	70-147	30	30	M1	
1,1-Dichloroethene	ug/L	ND	400	400	604	444	151	111	70-158	30	30		
1,1-Dichloropropene	ug/L	ND	400	400	620	454	155	113	70-149	31	30	M1,R1	
1,2,3-Trichlorobenzene	ug/L	ND	400	400	575	444	144	111	68-140	26	30	M1	
1,2,3-Trichloropropane	ug/L	ND	400	400	ND	ND	0	0	67-137		30	M1	
1,2,4-Trichlorobenzene	ug/L	ND	400	400	552	431	138	108	70-139	25	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	608	460	152	115	69-136	28	30	M1	
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	590	440	148	110	70-137	29	30	M1	
1,2-Dichlorobenzene	ug/L	ND	400	400	540	414	135	104	70-133	26	30	M1	
1,2-Dichloroethane	ug/L	ND	400	400	556	413	139	103	67-138	30	30	M1	
1,2-Dichloropropane	ug/L	ND	400	400	646	483	161	121	70-138	29	30	M1	
1,3-Dichlorobenzene	ug/L	ND	400	400	546	424	137	106	70-133	25	30	M1	
1,3-Dichloropropane	ug/L	ND	400	400	605	449	151	112	70-136	30	30	M1	
1,4-Dichlorobenzene	ug/L	ND	400	400	542	417	136	104	70-133	26	30	M1	
2,2-Dichloropropane	ug/L	ND	400	400	548	410	137	102	52-155	29	30		
2-Butanone (MEK)	ug/L	ND	800	800	1290	927	161	116	61-147	33	30	M1,R1	
2-Chlorotoluene	ug/L	ND	400	400	951	617	238	154	70-141	43	30	M1,R1	
2-Hexanone	ug/L	ND	800	800	1240	884	154	111	67-139	33	30	M1,R1	
4-Chlorotoluene	ug/L	ND	400	400	549	421	137	105	70-135	26	30	M1	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	800	800	1170	842	147	105	67-136	33	30	M1,R1	
Acetone	ug/L	ND	800	800	1350	994	169	124	55-159	31	30	M1,R1, v1	
Benzene	ug/L	3180	400	400	4040	3720	215	135	67-150	8	30	E,M1	
Bromobenzene	ug/L	ND	400	400	548	425	137	106	70-134	25	30	M1	
Bromochloromethane	ug/L	ND	400	400	625	470	156	118	70-146	28	30	M1	
Bromodichloromethane	ug/L	ND	400	400	580	436	145	109	70-138	28	30	M1	
Bromoform	ug/L	ND	400	400	555	415	139	104	57-138	29	30	M1	
Bromomethane	ug/L	ND	400	400	591	411	148	103	10-200	36	30	IK,R1	
Carbon tetrachloride	ug/L	ND	400	400	594	451	149	113	70-147	27	30	M1	
Chlorobenzene	ug/L	ND	400	400	593	445	148	111	70-137	29	30	M1	
Chloroethane	ug/L	ND	400	400	692	640	173	160	51-166	8	30	M1	
Chloroform	ug/L	ND	400	400	636	468	158	116	70-144	30	30	M1	
Chloromethane	ug/L	ND	400	400	612	437	153	109	24-161	33	30	R1	
cis-1,2-Dichloroethene	ug/L	ND	400	400	618	461	155	115	67-148	29	30	M1	
cis-1,3-Dichloropropene	ug/L	ND	400	400	559	418	140	105	70-142	29	30		
Dibromochloromethane	ug/L	ND	400	400	599	438	150	110	68-138	31	30	M1,R1	
Dibromomethane	ug/L	ND	400	400	596	443	149	111	70-134	30	30	M1	
Dichlorodifluoromethane	ug/L	ND	400	400	478	357	119	89	43-155	29	30		
Diisopropyl ether	ug/L	26.1	400	400	638	478	153	113	65-146	29	30	M1	
Ethylbenzene	ug/L	1680	400	400	2360	2170	169	124	68-143	8	30	M1	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537963

Parameter	Units	3263119		3263120		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92537746001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Hexachloro-1,3-butadiene	ug/L	ND	400	400	570	442	142	110	62-151	25	30		
m&p-Xylene	ug/L	5900	800	800	7320	6870	177	121	53-157	6	30	M1	
Methyl-tert-butyl ether	ug/L	524	400	400	1180	994	165	117	59-156	17	30	M1	
Methylene Chloride	ug/L	ND	400	400	499	331	125	83	64-148	41	30	R1	
Naphthalene	ug/L	758	400	400	1420	1260	166	126	57-150	12	30	M1	
o-Xylene	ug/L	3320	400	400	4070	3830	188	127	68-143	6	30	E,M1	
p-Isopropyltoluene	ug/L	ND	400	400	587	456	147	114	70-141	25	30	M1	
Styrene	ug/L	ND	400	400	696	547	174	137	70-136	24	30	M1	
Tetrachloroethene	ug/L	ND	400	400	563	420	141	105	70-139	29	30	M1	
Toluene	ug/L	685	400	400	1310	1130	156	111	47-157	15	30		
trans-1,2-Dichloroethene	ug/L	ND	400	400	638	479	159	120	70-149	28	30	M1	
trans-1,3-Dichloropropene	ug/L	ND	400	400	547	401	137	100	70-138	31	30	R1	
Trichloroethene	ug/L	ND	400	400	608	450	152	112	70-149	30	30	M1	
Trichlorofluoromethane	ug/L	ND	400	400	532	393	133	98	61-154	30	30		
Vinyl acetate	ug/L	ND	800	800	1310	960	164	120	48-156	31	30	M1,R1	
Vinyl chloride	ug/L	ND	400	400	620	462	155	115	55-172	29	30		
Xylene (Total)	ug/L	9230	1200	1200	11400	10700	180	123	66-145	6	30	ES,MS	
1,2-Dichloroethane-d4 (S)	%						89	94	70-130				
4-Bromofluorobenzene (S)	%						100	100	70-130				
Toluene-d8 (S)	%						96	95	70-130				

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

QC Batch: 619690 Analysis Method: EPA 8260D Mod.
QC Batch Method: EPA 8260D Mod. Analysis Description: 8260D MSV SIM
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92537963003, 92537963004, 92537963005

METHOD BLANK: 3260219 Matrix: Water

Associated Lab Samples: 92537963003, 92537963004, 92537963005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	05/11/21 14:52	
1,2-Dichloroethane-d4 (S)	%	89	70-130	05/11/21 14:52	
Toluene-d8 (S)	%	111	66-133	05/11/21 14:52	

LABORATORY CONTROL SAMPLE: 3260220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.9	99	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
Toluene-d8 (S)	%			113	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3260221 3260222

Parameter	Units	92537966014 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	22.6	20	20	41.5	43.1	95	103	64-141	4	30	
1,2-Dichloroethane-d4 (S)	%						88	91	70-130		30	
Toluene-d8 (S)	%						109	109	66-133		30	

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QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

QC Batch: 619924 Analysis Method: EPA 8260D Mod.
QC Batch Method: EPA 8260D Mod. Analysis Description: 8260D MSV SIM
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92537963001, 92537963002

METHOD BLANK: 3261494 Matrix: Water
Associated Lab Samples: 92537963001, 92537963002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	05/12/21 13:11	
1,2-Dichloroethane-d4 (S)	%	106	70-130	05/12/21 13:11	
Toluene-d8 (S)	%	92	66-133	05/12/21 13:11	

LABORATORY CONTROL SAMPLE: 3261495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.0	100	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
Toluene-d8 (S)	%			93	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3261496 3261497

Parameter	Units	92537963001 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	291	100	100	398	381	107	90	64-141	4	30	
1,2-Dichloroethane-d4 (S)	%						108	106	70-130		30	
Toluene-d8 (S)	%						91	92	66-133		30	

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QUALIFIERS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537963

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.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
ES	The reported result is estimated because one or more of the constituent results are qualified as such.
IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Kop-Flex Facility Site

Pace Project No.: 92537963

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92537963001	RW-1S	EPA 8260D	620213		
92537963002	RW-2S	EPA 8260D	620213		
92537963003	RW-3S	EPA 8260D	619922		
92537963004	RW-1D	EPA 8260D	620213		
92537963005	RW-2D	EPA 8260D	619922		
92537963001	RW-1S	EPA 8260D Mod.	619924		
92537963002	RW-2S	EPA 8260D Mod.	619924		
92537963003	RW-3S	EPA 8260D Mod.	619690		
92537963004	RW-1D	EPA 8260D Mod.	619690		
92537963005	RW-2D	EPA 8260D Mod.	619690		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples: Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt: **Client Name: WSP VA** Project **WO# : 92537963**

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

Barcode: **92537963**

Custody Seal Present? Yes No Seals Intact? Yes No Date/Initials Person Examining Contents: **5-11-21 LP**

Packing Material: Bubble Wrap Bubble Bags None Other Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: **92T064** Type of Ice: Wet Blue None

Cooler Temp: **3.312.1.4.1** Correction Factor: Add/Subtract (°C) **0.0°C** Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): **1.98** **3.32.1.1 4.1/1.98**

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: WT			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY _____ Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION _____

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



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

Project **W0# : 92537963**

PM: BV

Due Date: 05/18/21

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

CLIENT: 92-WSP

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

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)-S035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY RECORD

WSP USA Office Address Herndon, VA		WSP USA Contact Name Molly Long		Requested Analyses & Preservatives Ver 8260D 1,4-dioxane 8260D+ SIM		No. 008142		WSP	
Project Name Kogflex System		WSP USA Contact Email Molly.Long@wsp.com				Laboratory Name & Location Rome, NC		Laboratory Project Manager Bonnie V	
Project Location Herndon, MD		WSP USA Contact Phone 703 209 6500				Requested Turn-Around-Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR			
Project Number & Task 31401545-21013		Sampler(s) Name(s) Molly Long				Requested Turn-Around-Time <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR			
Sampler(s) Name(s) Molly Long		Sampler(s) Signature(s) <i>[Signature]</i>				Requested Turn-Around-Time <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR			
Sample Identification	Matrix	Collection Start Date	Collection Stop Date	Number of Containers		Sample Comments			
RW-1S	AQ	5/19/2021	13 35	6	X	001			
RW-2S			13 45	6	X	002			
RW-3S			14 15	6	X	003			
RW-1D			14 40	6	X	004			
RW-2D			15 40	6	X	005			
Relinquished By (Signature) <i>[Signature]</i>		Date 5/12/21	Time 1:00	Received By (Signature) <i>[Signature]</i>	Date 5-11-21	Time 1:40	Shipment Method FedEx	Tracking Number(s)	Custody Seal Number(s)
Relinquished By (Signature) <i>[Signature]</i>		Date	Time	Received By (Signature) <i>[Signature]</i>	Date	Time	Number of Packages		

* Use stop time/date for composite and/or all 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)