

LAPP INSULATOR SITE

APRIL 2019 GROUNDWATER MONITORING WELL SAMPLING LETTER REPORT

WORK ASSIGNMENT D007622-11.2

LAPP INSULATOR LEROY (T)

SITE NO. 819017 GENESEE COUNTY, NY

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

Basil Seggos, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION Remedial Bureau E

> URS Corporation 257 West Genesee Street Suite 400 Buffalo, New York 14202

LETTER REPORT

APRIL 2019

GROUNDWATER MONITORING WELL SAMPLING

FOR THE

LAPP INSULATOR SITE

NYSDEC SITE NUMBER 819017

LEROY, GENESEE COUNTY, NEW YORK

PREPARED FOR:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION WORK ASSIGNMENT NUMBER D007622-11,2

PREPARED BY:

URS CORPORATION
257 WEST GENESEE STREET, SUITE 400
BUFFALO, NEW YORK 14202

July 2019

July 16, 2019

Ms. Lisa A. Gorton, P.E. 12th Floor Remedial Bureau E, Section A NYS Department of Environmental Conservation 625 Broadway Albany, New York 12233-5060

Re: NYSDEC Standby Contract, Work Assignment No. D007622-11.2 Lapp Insulator Site, Site ID No. 819017 Letter Report – Groundwater Monitoring Well Sampling

Dear Ms. Gorton:

URS Corporation - New York (URS) has prepared this letter report to summarize the analytical results associated with the groundwater sampling program for the Lapp Insulator site [New York State Department of Environmental Conservation (NYSDEC) Site Number 819017] located at 130 Gilbert Street, LeRoy, Genesee County, New York (Figure 1). The work was completed under Work Assignment No. D007622-11.2.

1.0 <u>INTRODUCTION</u>

During the summer of 2014, remedial excavation of chlorinated solvent-contaminated soil took place at two locations at the Lapp Insulator site (Area A and Area C/D). Figure 2 shows an overall site plan and illustrates key features at the site, including the two excavation areas. Following the remediation and restoration work at these locations, groundwater monitoring wells were installed in shallow bedrock and a groundwater sampling program was implemented.

The purpose of the groundwater sampling program is to evaluate the nature and extent of the dissolved-phase chlorinated volatile organic compound (CVOC) groundwater plume in the shallow bedrock groundwater zone. The fieldwork included measuring water levels in monitoring wells to determine groundwater elevations and gradients, and to evaluate dissolved-phase concentrations of CVOCs and the emerging contaminant 1,4-dioxane in groundwater. In addition, natural attenuation parameters [total and dissolved iron and manganese, biochemical oxygen demand (BOD), chemical oxygen demand (COD), nitrate and sulfate] were added to the April 2019 analytical program for use in a remedial design to address CVOC contamination in shallow bedrock groundwater.

The purpose of this letter report is to present a discussion of all field activities associated with the groundwater sampling that took place at the site from April 17 through 22, 2019. This letter report includes the groundwater data collected from the site since December 2014.

2.0 GROUNDWATER ELEVATION AND CONTOURS

On April 17, 2019, prior to commencing sample collection, groundwater elevation measurements were collected from each well in the sampling program. The groundwater levels were used to develop a groundwater elevation contour map so that groundwater flow directions could be determined. Water levels were measured to the nearest 0.01 foot (ft) using a 100-ft long Solinst water level meter. Figure 3 illustrates the groundwater elevations and contours for April 17, 2019. Groundwater elevation measurements are provided in Table 1. Overall groundwater flow direction varies, but is generally to the east towards Oatka Creek. The horizontal gradient ranges from 0.03 to 0.11 ft/ft.

3.0 GROUNDWATER SAMPLING

The following wells are included in the groundwater sampling program: BRW-01, BRW-02, SR-001 through SR-006, SR-101, SR-104, SR-105, SR-106 and SR-108. Prior to the April 2019 sampling event, the groundwater sampling program consisted of using passive diffusion bags (PDBs) or HydraSleeves to collect groundwater samples. To facilitate the collection of 1,4-dioxane, metals and natural attenuation parameters, URS collected samples using a peristaltic pump with low-flow purging instead of PDBs or HydraSleeves during the April 2019 sampling event.

From April 17 through 22, 2019, URS collected groundwater samples from all 13 monitoring wells in the groundwater sampling program using low-flow sampling procedures. The wells were sampled using a GeoPump peristaltic pump, with dedicated low-density polyethylene (LDPE) tubing and dedicated silicone tubing. Water quality parameters (pH, conductivity, temperature, dissolved oxygen (DO), oxygen reduction potential (ORP), and turbidity) were recorded approximately every 5 minutes during well purging using a Horiba U-52 flow-thru cell. Each well was purged at a rate below one liter per minute until water quality parameters stabilized. Purge logs are provided in Attachment 1. Purge water was containerized in 55 gallon steel drums. Calibration data for the flow cell was recorded in a field notebook (field notes are presented as Attachment 2). Samples were collected from each monitoring well for the following analytical parameters:

- Target Compound List (TCL) Volatile Organic Compounds by SW8260C;
- 1,4-Dioxane by SW8270D Selected Ion Monitoring (SIM);
- Total and Dissolved Iron and Manganese by SW846 6010C;
- BOD₅ by SM5210B;
- COD by United States Environmental protection Agency (USEPA) 410.4; and
- Nitrate and Sulfate by USEPA 300.0.

One field duplicate sample and one matrix spike/matrix spike duplicate pair were collected for quality control. Following collection the samples were stored in coolers with ice. Trip blanks accompanied each sample shipment. The samples were transported under chain-of-custody control to TestAmerica Laboratories located in Amherst, New York.

3.0.1 Groundwater Analytical Results

Full deliverable data packages (i.e., NYSDEC Analytical Service Protocol Category B or equivalent) were provided by the laboratory and included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

URS prepared a Data Usability Summary Report (DUSR) following the guidelines provided NYSDEC Division of Environmental Remediation DER-10 *Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and the Development of Data Usability Summary Reports,* May 2010. The data packages were reviewed for compliance with analytical method requirements and the applicable USEPA Region II guidelines. The complete validated analytical results from the groundwater samples are presented in the DUSR in Attachment 3. Data summary tables and Form I's are provided in the DUSR and include the reporting limit for each non-detected compound.

The type and quality of analytical results met the project quality objectives (PQOs) for this sampling event. The analytical results were compared to:

- NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (including subsequent revisions and updates);
- USEPA Drinking Water Health Advisory (USEPA, May 2016); and

• New York State Department of Health (NYSDOH) Drinking Water Quality Council (DWQC) Recommended Screening Levels for 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS) (January 2019).

Table 2 presents the detected compounds along with the criteria for the samples collected on April 17 through 22, 2019. A statistical summary of the analytical results from the April 2019 sampling event is provided in Table 3. Table 4 provides all groundwater analytical results, except PFAS, for the December 2014, September 2018, and April 2019 sampling events. Figure 4 identifies the monitoring wells where VOCs and 1,4-dioxane were detected above criteria, and shows which compounds exceeded criteria in each well during the three sampling events.

As shown in Table 4, the most prevalent compounds found in the groundwater over the past three sampling events have been the CVOCs 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and 1,1-dichloroethene (1,1-DCE), all of which were all detected above 1,000 micrograms per liter (μ g/L) at one or more well locations. Trans-1,2-DCE, chloroethane and vinyl chloride were other CVOCs detected above criteria in at least one well at the site, but the concentrations were below 1,000 μ g/L.

In addition to the CVOCs; benzene, toluene, xylene, and acetone have been detected above criteria in at least one well, although at relatively lower concentrations compared to the CVOCs.

1,4-Dioxane was detected in every sample location in the sampling program during the April 2019 sampling event, with concentrations ranging from 0.57 μ g/L in SR-004 to 3,100 μ g/L in SR-105. Eleven of 13 monitoring wells exceeded the DWQC recommended screening limit of 1 μ g/L.

Samples were not analyzed for PFAS in the April 2019 sampling event. Table 5 presents the September 2018 results for PFAS along with the USEPA Health Advisory limit and NYSDOH DWQC recommended screening limits. PFOA and PFOS were not detected in the four samples selected for analysis. The PFAS detected in September 2018 were below DWQC recommended screening limits, therefore continued sampling for this parameter was not necessary.

The CVOCs found at the highest concentrations during the April 2019 sampling event are discussed below:

- 1,1,1-TCA was the highest detected CVOC, and was detected above the criterion of 5 μ g/L in nine of the 13 monitoring wells sampled. The highest 1,1,1-TCA concentrations were found at wells SR-105 (200,000 μ g/L), BRW-02 (4,000 μ g/L), SR-006 (2,200 μ g/L), SR-005 (1,200 μ g/L), and SR-106 (1,100 μ g/L). The 1,1,1-TCA concentrations in the remaining wells were less than 1,000 μ g/L.
- TCE was detected above the criterion of 5 μg/L in 10 of the 13 monitoring wells sampled. The highest TCE concentrations were found at SR-105 (92,000 μg/L), SR-002 (4,300 μg/L), SR-104 (2,700 μg/L), and SR-005 (1,900 μg/L). The TCE concentrations in the remaining wells were less than 1,000 μg/L.
- 1,1-DCA was detected above the criterion of 5 μ g/L in 10 of the 13 monitoring wells sampled. The highest concentrations of 1,1-DCA were found at SR-105 (75,000 μ g/L), SR-005 (17,000 μ g/L), SR-006 (7,100 μ g/L), BRW-02 (3,700 μ g/L), and SR-106 (3,300 μ g/L). The 1,1-DCA concentrations in the remaining wells were less than 1,000 μ g/L.
- 1,1-DCE was detected above the criterion of 5 μ g/L in nine of the 13 monitoring wells sampled. The highest concentration of 1,1-DCE was found in well SR-105 (3,100 μ g/L). The 1,1-DCE concentrations in the remaining wells were less than 1,000 μ g/L.
- Cis-1, 2-DCE was detected above the criterion of 5 μ g/L in nine of the 13 monitoring wells sampled. The highest concentrations of cis-1,2-DCE were found in wells SR-105 (7,600 μ g/L),

SR-002 and SR-104 (both 1,800 μ g/L). The cis-1,2-DCE concentrations in the remaining wells were less than 1,000 μ g/L.

3.1 Investigation-Derived Waste Disposal

All investigation-derived waste (IDW) (decon water, and purge water) was collected in DOT approved 55-gallon drums and stored on-site. Based on the analytical data for the samples collected during the April 2019 sampling event, it was assumed that the drum contents are hazardous. URS' subcontractor Sun Environmental Corp., is scheduled to pick up the drums on July 17, 2019 for off-site disposal at an approved facility. Copies of the hazardous waste manifests for IDW will be provided as Attachment 4 when they are available.

4.0 CONCLUSIONS

Based upon the results of the sampling, the following conclusions are made.

- The overall groundwater flow is generally to the east towards Oatka Creek.
- TCE, 1,1,1-TCA, 1,1-DCA, 1,1-DCE and cis-1,2-DCE were detected above 1,000 μg/L at one or more wells in the two primary areas at the site; Area A and Area C/D. The highest levels of contamination exist in Area A.
- Wells SR-105, BRW-01, BRW-02, SR-005 and SR-006 exhibited the highest concentrations of CVOCs. These wells are located in the same vicinity in Area A. These wells are generally downgradient from the suspected source area in Area A.
- In wells BRW-01 and SR-006, both downgradient of Area A, CVOC concentrations have consistently decreased over the three sampling events since December 2014. For example, 1,1,1-TCA in well BRW-01 has decreased from 120,000 μg/L in December 2014 to 100 μg/L in April 2019 and in SR-006 1,1,1-TCA decreased from 77,000 μg/L in December 2014 to 2,200 μg/L in April 2019.
- Well SR-004, slightly upgradient from Area A, did not contain any CVOCs in exceedance of criteria.
- Upgradient well SR-101, located at the far northern end of the site, did not contain any CVOCs in exceedance of criteria.
- Downgradient well SR-106, located at the far eastern end of the site, contained several CVOCs in exceedance of criteria, two of which were over 1,000 μg/L.
- In Area C/D, wells SR-002 and SR-104 exhibited concentrations of CVOCs above 1,000 μg/L. Wells SR-001 and SR-108, also in Area C/D, exhibited concentrations of CVOCs above criteria but less than 1,000 μg/L.
- In well SR-003, downgradient of Area C/D, CVOC concentrations have consistently decreased over the three sampling events since December 2014. There were no CVOCs detected above criteria in April 2019; cis-1,2-DCE and TCE had both been detected over 1,000 μg/L during the December 2014 and September 2018 sampling events.
- The greatest concentrations of 1,4-dioxane were detected in Area A monitoring wells. The concentrations of 1,4-dioxane in monitoring wells located in Area C/D were significantly lower. Upgradient well SR-101 also had detections for 1,4-dioxane, similar to concentrations in Area C/D.

5.0 **RECOMMENDATIONS**

URS is currently preparing a Design Memorandum to propose an approach for addressing CVOC contamination in shallow bedrock groundwater in Areas A and C/D. Groundwater sampling should continue on an annual basis.

6.0 TABLES, FIGURES, AND ATTACHMENTS

The following tables, figures, and attachments are included as part of this letter report:

TABLES (following text)

Table 1	Groundwater Elevation Measurements
Table 2	Summary of Detected Compounds in April 2019 Groundwater Samples
Table 3	Statistical Summary of Detected Compounds in April 2019 Groundwater Samples
Table 4	Historical Summary of Detected Compounds in Groundwater Samples
Table 5	Summary of PFAS in Groundwater Samples

FIGURES (following Tables)

Figure 1	Site Location
Figure 2	Site Plan
Figure 3	Bedrock Groundwater Elevation Contours (April 17, 2019)
Figure 4	Groundwater Analytical Results (Exceedances Only)

ATTACHMENTS (following Figures)

Attachment 1	Purge Logs
Attachment 2	Field Notes
Attachment 3	Data Usability Summary Reports (on CD with hard copy)
Attachment 4	Investigation Derived Waste Disposal Documentation

Please contact me at 716-856-5636 if you have any questions or comments.

Sincerely,

URS Corporation

Charles Dusel, Jr. Senior Project Manager

cc: File: 11176787 (R-1)
Don McCall URS
George Kisluk URS
Dan McDaid URS

TABLES

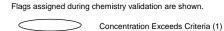
TABLE 1 GROUNDWATER ELEVATION MEASUREMENTS LAPP INSULATOR SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Ti	ime	Depth to Water (ft)	Water Elev. (ft)	Remark
BRW-01	1081955.7	1302497.01	906.2	905.73	D	12/2/2014	0000	18.25	887.48	
MNW						6/6/2018	1334	15.63	890.10	
						9/27/2018	1130	15.25	890.48	
						4/17/2019	1029	12.75	892.98	
BRW-02	1081989.96	1302381.13	907.3	906.74	D	12/2/2014	0000	12.01	894.73	
MNW	1001000.00	1002001.10	007.0	000.7 1		6/6/2018	0000	NM	-	Could not locate
							0000	NM	-	Could not locate
						4/17/2019	1142	12.77	893.97	Codia not locate
SR-001	1081544.97	1301853.72	912.7	914.47	D	12/2/2014	0000	38.85	875.62	
MNW	1001344.97	1301033.72	912.7	914.47	Б	6/6/2018	1205	9.33	905.14	
						9/27/2018	1017	9.77	904.70	
SR-002	4004407.04	4004070.05	040.7	045.07		4/17/2019	1011	9.46	905.01	
MNW	1081427.91	1301972.95	912.7	915.27	D	12/2/2014	0000	13.54	901.73	
IVIIAVV						6/6/2018	1240	14.25	901.02	
						9/27/2018	1006	15.13	900.14	
SD 002						4/17/2019	1009	12.88	902.39	
SR-003	1081298.23	1302026.42	908.6	911.38	D	12/2/2014	0000	17.85	893.53	
MNW						6/6/2018	1245	17.90	893.48	
						9/27/2018	1000	17.61	893.77	
						4/17/2019	1007	17.01	894.37	
SR-004	1082056.57	1302364.92	908.3	907.77	D	12/2/2014	0000	7.95	899.82	
MNW						6/6/2018	0000	NM	-	Could not locate
						9/27/2018	1355	7.16	900.61	
						4/17/2019	1111	5.52	902.25	
SR-005	1081969.28	1302451.49	906.7	906.14	D	12/2/2014	0000	31.07	875.07	
MNW						6/6/2018	1303	15.35	890.79	
						9/27/2018	1135	15.82	890.32	
						4/17/2019	1050	15.02	891.12	
SR-006	1081939.17	1302489.7	906.4	906.02	D	12/2/2014	0000	19.16	886.86	
MNW						6/6/2018	1346	17.42	888.60	
						9/27/2018	1128	17.45	888.57	
						4/17/2019	1024	15.90	890.12	
SR-101	1083000.81	1301985.55	913.8	916.16	D	12/2/2014	0000	10.16	906.00	
MNW						6/6/2018	1150	8.85	907.31	
						9/27/2018	0859	10.54	905.62	
						4/17/2019	1212	6.81	909.35	
SR-104	1081314.14	1301853.16	909.2	910.74	D		0000	13.01	897.73	
MNW						6/6/2018	1220	12.17	898.57	
						9/27/2018	1013	13.02	897.72	
						4/17/2019	1001	10.86	899.88	
SR-105	1082001 41	1302493.65	905.9	905.20	D		0000	14.04	891.16	
MNW	1002001111	1002 100.00	000.0	000.20		6/7/2018	0915	13.86	891.34	
						9/27/2018	0950	13.80	891.40	
						4/17/2019	1044	13.68	891.52	
SR-106	1082265 69	1302709 02	807.0	808 01	D					
MNW	1002203.08	1302798.02	897.0	898.81	,		1428	23.88	874.93 975.53	
1411.444						6/6/2018	1428	23.28	875.53	
						9/27/2018	0927	23.62	875.19	
SD-100	4004055.5	4004001 ==	000 :	010.55		4/17/2019	1204	22.68	876.13	
SR-108	1081256.31	1301824.97	908.1	910.57	D		0000	14.41	896.16	
MNW						6/6/2018	1233	12.56	898.01	
						9/27/2018	1011	13.74	896.83	
						4/17/2019	0959	12.10	898.47	

NM - No Measurement Geologic Zone: D Bedrock Aquifer Monitoring Well Type: MNW

Loca	tion ID			BRW-01	BRW-01	BRW-02	SR-001	SR-002	
Sam	ple ID			BRW-01	FD-20190422	BRW-02	SR-001	SR-002	
Ma	atrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	nterval (ft	:)		-	-	-	-	-	
Date S	Sampled			04/22/19	04/22/19	04/19/19	04/18/19	04/18/19	
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)				
Volatile Organic Compo	unds								
1,1,1-Trichloroethane	UG/L	5	-	100	99	4,000		86	
1,1-Dichloroethane	UG/L	5	-	210	200	3,700	61	97	
1,1-Dichloroethene	UG/L	5	-	54	51	170	0.62 J	20	
1,2-Dichloroethene (cis)	UG/L	5	-	52	50		27	1,800 D	
1,2-Dichloroethene (trans)	UG/L	5	-				29	26	
Acetone	UG/L	50	-						
Benzene	UG/L	1	-	0.85 J	0.78 J				
Carbon disulfide	UG/L	60	-					0.48 J	
Chloroethane	UG/L	5	-	0.51 J	0.57 J	7.9 J			
Cyclohexane	UG/L	-	-	4.8 J	4.5 J	20 J			
Ethylbenzene	UG/L	5	-	0.39 J	0.41 J				
Isopropylbenzene (Cumene)	UG/L	5	-						
Methylcyclohexane	UG/L	-	-	8.2	7.8	22 J	0.68 J		
Tetrachloroethene	UG/L	5	-						
Toluene	UG/L	5	-	1.7	1.7	8.0 J			
Trichloroethene	UG/L	5	-	76	75	14 J	6.4	4,300 D	
Vinyl chloride	UG/L	2	-	2.1	2.0		3.9	2.8	
Xylene (total)	UG/L	5	-	2.4 J	2.4 J	13 J			
Total Volatile Organic Compounds Semivolatile Organic Comp	UG/L	-	-	512.95	495.16	7,954.9	128.6	6,332.28	
	1	_	1	140	100		7.5	0.00	
1,4-Dioxane	UG/L	-	1	110	120	22	7.5	0.60	

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019



Concentration Exceeds Criteria (2)

^{- -} No criteria. * - Criteria apllicable for unfiltered metals. UG/L - Micrograms per liter. MG/L - Milligrams per liter. Empty Cell - Not Detected. D - Result reported from a secondary dilution analysis.

J - The reported concentration is an estimated value. J- - Estimated value, low bias. J+ - Estimated value, high bias.

Loca	tion ID			BRW-01	BRW-01	BRW-02	SR-001	SR-002
Sam	ple ID			BRW-01	FD-20190422	BRW-02	SR-001	SR-002
Ma	ıtrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth In	terval (ft	:)		-	-	-	-	-
Date S	ampled			04/22/19	04/22/19	04/19/19	04/18/19	04/18/19
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Metals								
Iron	UG/L	300	-	13,500	14,500	42,000	9,800	17,200
Manganese	UG/L	300	-	660 J+	660 J+	550 J+	39 J+	140 J+
Dissolved Metals								
Iron	UG/L	300 *	-	6,500	6,100	14,500	69 J-	990 J-
Manganese	UG/L	300 *	-	740 J+	720 J+	440 J+	13	71
Miscellaneous Paramete	ers							
Biochemical Oxygen Demand (BOD)	MG/L	-	-					
Chemical Oxygen Demand (COD)	MG/L	-	-	24.8	31.1	35.4	31.1	7.6 J
Nitrate-Nitrogen	MG/L	10000	-					
Sulfate (as SO4)	MG/L	2.50E+05	-	32.3	31.8	5.2	2.4 J	17.7

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

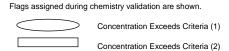


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J - The reported concentration is an estimated value. J- - Estimated value, low bias. J+ - Estimated value, high bias.

Loca	tion ID			SR-003	SR-004	SR-005	SR-006	SR-101
Sam	ple ID			SR-003	SR-004	SR-005	SR-006	SR-101
Ma	ıtrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth In	terval (ft	t)		-	-	-	-	-
Date S	ampled			04/18/19	04/19/19	04/19/19	04/22/19	04/17/19
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-			1,200	2,200	
1,1-Dichloroethane	UG/L	5	-			17,000	7,100	
1,1-Dichloroethene	UG/L	5	-			500	360	
1,2-Dichloroethene (cis)	UG/L	5	-			230	550	
1,2-Dichloroethene (trans)	UG/L	5	-					
Acetone	UG/L	50	-	24 J				
Benzene	UG/L	1	-	12	6.8	83 J	33 J	
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-			78 J		
Cyclohexane	UG/L	-	-	54	6.9	72 J		
Ethylbenzene	UG/L	5	-	3.3	1.5			
Isopropylbenzene (Cumene)	UG/L	5	-	0.62 J				
Methylcyclohexane	UG/L	-	-	40	3.3 J	38 J	30 J	0.93 J
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-	18	2.4	96 J	(43 J	
Trichloroethene	UG/L	5	-			1,900	680	
Vinyl chloride	UG/L	2	-					
Xylene (total)	UG/L	5	-	21	5.4)		
Total Volatile Organic Compounds Semivolatile Organic Comp	UG/L ounds	-	-	172.92	26.3	21,197	10,996	0.93
1,4-Dioxane	UG/L	-	1	1.3	0.57	1,200	290	3.3

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019



^{- -} No criteria. * - Criteria apllicable for unfiltered metals. UG/L - Micrograms per liter. MG/L - Milligrams per liter. Empty Cell - Not Detected. D - Result reported from a secondary dilution analysis.

J - The reported concentration is an estimated value. J- - Estimated value, low bias. J+ - Estimated value, high bias.

Locat	ion ID			SR-003	SR-004	SR-005	SR-006	SR-101
Sam	ple ID			SR-003	SR-004	SR-005	SR-006	SR-101
Ma	trix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth In	terval (ft	:)		-	-	-	-	-
	ampled	•		04/18/19	04/19/19	04/19/19	04/22/19	04/17/19
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Iron	UG/L	300	-	86,400	48,900	140,000	16,000	4,100 J-
Manganese	UG/L	300	-	1,100 J+	620 J+	1,700 J+	280 J+	61
Dissolved Metals								
Iron	UG/L	300 *	-	3,300 J-	190	129,000	3,500	110
Manganese	UG/L	300 *	-	160	48 J+	1,500 J+	170 J+	28 J-
Miscellaneous Paramete	ers							
Biochemical Oxygen Demand (BOD)	MG/L	-	-			9.3		
Chemical Oxygen Demand (COD)	MG/L	-	-	43.6	50.2	80.6	39.3	29.4
Nitrate-Nitrogen	MG/L	10000	-					
Sulfate (as SO4)	MG/L	2.50E+05	-	106	23.3	31.4	31.2	118

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

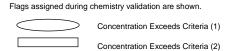


^{- -} No criteria. * - Criteria apllicable for unfiltered metals. UG/L - Micrograms per liter. MG/L - Milligrams per liter. Empty Cell - Not Detected. D - Result reported from a secondary dilution analysis.

J - The reported concentration is an estimated value. J- - Estimated value, low bias. J+ - Estimated value, high bias.

Loca	tion ID			SR-104	SR-105	SR-106	SR-108
Sam	ple ID			SR-104	SR-105	SR-106	SR-108
Ma	atrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth In	terval (ft	:)		-	-	-	-
Date S	ampled			04/18/19	04/22/19	04/17/19	04/18/19
Parameter	Units	Criteria (1)	Criteria (2)				
Volatile Organic Compou	ınds						
1,1,1-Trichloroethane	UG/L	5	-	45	200,000	1,100	12
1,1-Dichloroethane	UG/L	5	-	230	75,000	3,300	43
1,1-Dichloroethene	UG/L	5	-	46	3,100	59	9.5
1,2-Dichloroethene (cis)	UG/L	5	-	1,800	7,600	250	480 D
1,2-Dichloroethene (trans)	UG/L	5	-	9.0 J		8.8 J	17
Acetone	UG/L	50	-		19,000 J		
Benzene	UG/L	1	-	4.9 J			2.8
Carbon disulfide	UG/L	60	-				
Chloroethane	UG/L	5	-			91	
Cyclohexane	UG/L	-	-				6.0
Ethylbenzene	UG/L	5	-				0.34 J
Isopropylbenzene (Cumene)	UG/L	5	-				
Methylcyclohexane	UG/L	-	-				8.4
Tetrachloroethene	UG/L	5	-	10			0.35 J
Toluene	UG/L	5	-				1.4
Trichloroethene	UG/L	5	-	2,700 D	92,000	58	530 D
Vinyl chloride	UG/L	2	-	33		100	47
Xylene (total)	UG/L	5	-				
Total Volatile Organic Compounds	UG/L	-	-	4,877.9	396,700	4,966.8	1,157.79
Semivolatile Organic Comp	ounds						
1,4-Dioxane	UG/L	-	1	12	3,100	240	1.7

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019



^{- -} No criteria. * - Criteria apllicable for unfiltered metals. UG/L - Micrograms per liter. MG/L - Milligrams per liter. Empty Cell - Not Detected. D - Result reported from a secondary dilution analysis.

J - The reported concentration is an estimated value. J- - Estimated value, low bias. J+ - Estimated value, high bias.

Locat	tion ID			SR-104	SR-105	SR-106	SR-108
Sam	ple ID			SR-104	SR-105	SR-106	SR-108
Ma	ıtrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth In	terval (fi	t)				-	-
Date S	ampled			04/18/19	04/22/19	04/17/19	04/18/19
Parameter	Units	Criteria (1)	Criteria (2)				
Metals							
Iron	UG/L	300	-	940	14,100	2,900 J-	28,500
Manganese	UG/L	300	-	61 J+	310 J+	49	160 J+
Dissolved Metals							
Iron	UG/L	300 *	-	380 J-	11,100	690	1,300 J-
Manganese	UG/L	300 *	-	51	270 J+	41 J-	58
Miscellaneous Paramete	ers						
Biochemical Oxygen Demand (BOD)	MG/L	-	-		57.8 J		
Chemical Oxygen Demand (COD)	MG/L	-	-	11.3	127	119	21.2
Nitrate-Nitrogen	MG/L	10000	-		_	0.79	
Sulfate (as SO4)	MG/L	2.50E+05	-	36.4	11.8	142	11.8

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.



^{- -} No criteria. * - Criteria apllicable for unfiltered metals. UG/L - Micrograms per liter. MG/L - Milligrams per liter. Empty Cell - Not Detected. D - Result reported from a secondary dilution analysis.

J - The reported concentration is an estimated value. J- - Estimated value, low bias. J+ - Estimated value, high bias.

TABLE 3
STATISTICAL SUMMARY OF DETECTED COMPOUNDS IN APRIL 2019 GROUNDWATER SAMPLES
LAPP INSULATOR SITE

Parameter	Units	Criteria*	No. of	No. of	Rang	e of Detect	ions	No.	Location of
			Samples	Detections	Min	Max	Avg	Exceed	Max Value
Volatile Organic Compounds									
1,1,1-Trichloroethane	UG/L	5	13	9	12.00	2.00E+05	2.32E+04	9	SR-105
1,1-Dichloroethane	UG/L	5	13	10	43.00	7.50E+04	1.07E+04	10	SR-105
1,1-Dichloroethene	UG/L	5	13	10	0.620	3,100	431.9	9	SR-105
1,2-Dichloroethene (cis)	UG/L	5	13	9	27.00	7,600	1,421	9	SR-105
1,2-Dichloroethene (trans)	UG/L	5	13	5	8.80	29.00	17.96	5	SR-001
Acetone	UG/L	50	13	2	24.00	1.90E+04	9,512	1	SR-105
Benzene	UG/L	1	13	7	0.850	83.00	20.48	6	SR-005
Carbon disulfide	UG/L	60	13	1	0.480	0.480	0.480	0	SR-002
Chloroethane	UG/L	5	13	4	0.570	91.00	44.37	3	SR-106
Cyclohexane	UG/L	-	13	6	4.80	72.00	27.28	0	SR-005
Ethylbenzene	UG/L	5	13	4	0.340	3.30	1.39	0	SR-003
Isopropylbenzene (Cumene)	UG/L	5	13	1	0.620	0.620	0.620	0	SR-003
Methylcyclohexane	UG/L	-	13	9	0.680	40.00	16.83	0	SR-003
Tetrachloroethene	UG/L	5	13	2	0.350	10.00	5.18	1	SR-104
Toluene	UG/L	5	13	7	1.40	96.00	24.36	4	SR-005
Trichloroethene	UG/L	5	13	10	6.40	9.20E+04	1.02E+04	10	SR-105
Vinyl chloride	UG/L	2	13	6	2.10	100.0	31.47	6	SR-106
Xylene (total)	UG/L	5	13	4	2.40	21.00	10.45	3	SR-003

^{*} Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA or Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019.

Concentration Exceeds Criteria

TABLE 3
STATISTICAL SUMMARY OF DETECTED COMPOUNDS IN APRIL 2019 GROUNDWATER SAMPLES
LAPP INSULATOR SITE

Parameter	Units	Criteria*	No. of	No. of	Rang	e of Detecti	ions	No.	Location of Max Value
	00		Samples	Detections	Min	Max	Avg	Exceed	
Semivolatile Organic Compounds									
1,4-Dioxane	UG/L	1	13	13	0.570	3,100	384.5	11	SR-105
Metals									
Iron	UG/L	300	13	13	940.0	1.40E+05	3.27E+04	13	SR-005
Manganese	UG/L	300	13	13	39.00	1,700	440.8	6	SR-005
Dissolved Metals									
Iron	UG/L	300 *	13	13	69.00	1.29E+05	1.32E+04	10	SR-005
Manganese	UG/L	300 *	13	13	13.00	1,500	276.2	3	SR-005
Miscellaneous Parameters									
Biochemical Oxygen Demand (BOD)	MG/L	-	13	2	9.30	57.80	33.55	0	SR-105
Chemical Oxygen Demand (COD)	MG/L	-	13	13	7.60	127.0	48.22	0	SR-105
Nitrate-Nitrogen	MG/L	10000	13	1	0.790	0.790	0.790	0	SR-106
Sulfate (as SO4)	MG/L	2.50E+05	13	13	2.40	142.0	43.81	0	SR-106

Concentration Exceeds Criteria

^{*} Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA or Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019.

Loca	tion ID			BRW-01	BRW-01	BRW-01	BRW-01	BRW-02
Sam	ple ID			BRW-1	BRW-01	BRW-01	FD-20190422	BRW-02
	atrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	nterval (ft	:)		-	-	-	-	-
	Sampled			12/02/14	09/27/18	04/22/19	04/22/19	04/19/19
Parameter	Units	Criteria (1)	Criteria (2)				Field Duplicate (1-1)	
Volatile Organic Compo	unds							
1,1,1-Trichloroethane	UG/L	5	-	120,000 D	1,700	100	99	4,000
1,1,2-Trichloroethane	UG/L	1	-					
1,1-Dichloroethane	UG/L	5	-	43,000 D	4,000	210	200	3,700
1,1-Dichloroethene	UG/L	5	-	8,600	840	54	51	170
1,2-Dichloroethane	UG/L	0.6	-	94 J				
1,2-Dichloroethene (cis)	UG/L	5	-	2,700	1,100	52	50	
1,2-Dichloroethene (trans)	UG/L	5	-					
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	-					
Acetone	UG/L	50	-					
Benzene	UG/L	1	-			0.85 J	0.78 J	
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-	40 J		0.51 J	0.57 J	7.9 J
Chloroform	UG/L	7	-					
Chloromethane	UG/L	5	-					
Cyclohexane	UG/L	-	-			4.8 J	4.5 J	20 J
Ethylbenzene	UG/L	5	-			0.39 J	0.41 J	
Isopropylbenzene (Cumene)	UG/L	5	-					
Methyl ethyl ketone (2- Butanone)	UG/L	50	-					
Methylcyclohexane	UG/L	-	-			8.2	7.8	22 J
Methylene chloride	UG/L	5	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-			1.7	1.7	8.0 J

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

 $\label{eq:condary} \textit{Empty Cell - Not Detected.} \quad \textit{D - Result reported from a secondary dilution analysis.} \quad \textit{NA - Not analyzed.}$

Concentration Exceeds Criteria (2)

 $[\]hbox{--No criteria.} \quad \hbox{*-Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.} \quad$

Loca	tion ID			BRW-01	BRW-01	BRW-01	BRW-01	BRW-02
Sam	ple ID			BRW-1	BRW-01	BRW-01	FD-20190422	BRW-02
Ma	atrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth In	terval (ft	:)		-	-	-	-	-
Date S	ampled			12/02/14	09/27/18	04/22/19	04/22/19	04/19/19
Parameter	Units	Criteria (1)	Criteria (2)				Field Duplicate (1-1)	
Volatile Organic Compou	ınds							
Trichloroethene	UG/L	5	-	14,000 D	350	76	75	14 J
Vinyl chloride	UG/L	2	-			2.1	2.0	
Xylene (total)	UG/L	5	-			2.4 J	2.4 J	13 J
Total Volatile Organic Compounds	UG/L	-	-	188,434	7,990	512.95	495.16	7,954.9
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	110	120	22
Metals								
Iron	UG/L	300	-	NA	NA	13,500	14,500	42,000
Manganese	UG/L	300	-	NA	NA	660 J+	660 J+	550 J+
Dissolved Metals								
Iron	UG/L	300 *	-	NA	NA	6,500	6,100	14,500
Manganese	UG/L	300 *	-	NA	NA	740 J+	720 J+	440 J+
Miscellaneous Paramet	ers							
Biochemical Oxygen Demand (BOD)	MG/L	-	-	NA	NA			
Chemical Oxygen Demand (COD)	MG/L	-	-	NA	NA	24.8	31.1	35.4
Nitrate-Nitrogen	MG/L	10000	-	NA	NA			
Sulfate (as SO4)	MG/L	2.50E+05	-	NA	NA	32.3	31.8	5.2

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.



 $[\]hbox{--No criteria.} \quad \hbox{*- Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.} \quad$

Empty Cell - Not Detected. D - Result reported from a secondary dilution analysis. NA - Not analyzed.

Loca	tion ID			SR-001	SR-001	SR-001	SR-002	SR-002
Sam	ple ID			SR-1	SR-001	SR-001	SR-2	SR-002
	atrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	terval (ft	:)		-	-	-	-	-
	ampled			12/02/14	09/27/18	04/18/19	12/02/14	09/27/18
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compou	ınds							
1,1,1-Trichloroethane	UG/L	5	-				19)
1,1,2-Trichloroethane	UG/L	1	-					
1,1-Dichloroethane	UG/L	5	-	1.9		61	140 D	46
1,1-Dichloroethene	UG/L	5	-			0.62 J	25	2.9 J
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-	2.8		27	600 D	210
1,2-Dichloroethene (trans)	UG/L	5	-			29	38	12
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	-					
Acetone	UG/L	50	-	9.8 J	28			17 J
Benzene	UG/L	1	-	69	37		150 D	170
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloroform	UG/L	7	-					
Chloromethane	UG/L	5	-					
Cyclohexane	UG/L	-	-	74	45		34	40
Ethylbenzene	UG/L	5	-		8.8		14	19
Isopropylbenzene (Cumene)	UG/L	5	-	3.1			0.86 J	
Methyl ethyl ketone (2- Butanone)	UG/L	50	-		3.7 J			
Methylcyclohexane	UG/L	-	-	14	12	0.68 J	5.6	7.2
Methylene chloride	UG/L	5	-					
Tetrachloroethene	UG/L	5	-				0.60 J	
Toluene	UG/L	5	-	170 D	62)	200 D	81

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

 $\label{eq:condary} \textit{Empty Cell - Not Detected.} \quad \textit{D - Result reported from a secondary dilution analysis.} \quad \textit{NA - Not analyzed.}$

 $[\]hbox{--No criteria.} \quad \hbox{*-Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.}$

Loca	ion ID			SR-001	SR-001	SR-001	SR-002	SR-002
Sam	ple ID			SR-1	SR-001	SR-001	SR-2	SR-002
Ma	trix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth In	terval (ft	:)		- 12/02/14	-	-	- 12/02/14	-
Date S	ampled				09/27/18	04/18/19		09/27/18
Parameter Units		Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Trichloroethene	UG/L	5	-	24		6.4	570 D	8.5
Vinyl chloride	UG/L	2	-			3.9	28	160
Xylene (total)	UG/L	5	-	180 D	55		84	28
Total Volatile Organic Compounds	UG/L	-	-	571.6	251.5	128.6	1,909.06	801.6
Semivolatile Organic Comp	ounds							
1,4-Dioxane	UG/L	-	1	NA	NA	7.5	NA	NA
Metals								
Iron	UG/L	300	-	NA	NA	9,800	NA	NA
Manganese	UG/L	300	-	NA	NA	39 J+	NA	NA
Dissolved Metals								
Iron	UG/L	300 *	-	NA	NA	69 J-	NA	NA
Manganese	UG/L	300 *	-	NA	NA	13	NA	NA
Miscellaneous Paramete	ers							
Biochemical Oxygen Demand (BOD)	MG/L	-	-	NA	NA		NA	NA
Chemical Oxygen Demand (COD)	MG/L	-	-	NA	NA	31.1	NA	NA
Nitrate-Nitrogen	MG/L	10000	-	NA	NA		NA	NA
Sulfate (as SO4)	MG/L	2.50E+05	-	NA	NA	2.4 J	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.



 $[\]hbox{--No criteria.} \quad \hbox{*-Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.}$

 $\label{eq:condary} \textit{Empty Cell - Not Detected.} \quad \textit{D - Result reported from a secondary dilution analysis.} \quad \textit{NA - Not analyzed.}$

Loca	tion ID			SR-002	SR-003	SR-003	SR-003	SR-004
Sam	ple ID			SR-002	SR-3	SR-003	SR-003	SR-4
Ma	atrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	nterval (ft	:)		-	-	-	-	-
Date S	Sampled			04/18/19	12/02/14	09/27/18	04/18/19	12/02/14
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compou	unds							
1,1,1-Trichloroethane	UG/L	5	-	86	300 D			
1,1,2-Trichloroethane	UG/L	1	-		0.90 J			
1,1-Dichloroethane	UG/L	5	-	97	250 D	260		
1,1-Dichloroethene	UG/L	5	-	20	\bigcirc 70	57 J		
1,2-Dichloroethane	UG/L	0.6	-		0.50 J			
1,2-Dichloroethene (cis)	UG/L	5	-	1,800 D	3,600 D	2,400		
1,2-Dichloroethene (trans)	UG/L	5	-	26	$\boxed{17}$			
1,4-Dioxane	UG/L	-	1	NA	NA	13	NA	NA
2-Hexanone	UG/L	50	-					
Acetone	UG/L	50	-				24 J	
Benzene	UG/L	1	-				12	140 D
Carbon disulfide	UG/L	60	-	0.48 J				
Chloroethane	UG/L	5	-		0.54 J			
Chloroform	UG/L	7	-		0.69 J			
Chloromethane	UG/L	5	-					
Cyclohexane	UG/L	-	-				54	39
Ethylbenzene	UG/L	5	-				3.3	8.9
Isopropylbenzene (Cumene)	UG/L	5	-				0.62 J	
Methyl ethyl ketone (2- Butanone)	UG/L	50	-					
Methylcyclohexane	UG/L	-	-		0.62 J		40	5.8
Methylene chloride	UG/L	5	-			48 J		
Tetrachloroethene	UG/L	5	-		$\begin{array}{ c c c c c }\hline & 34 & \\ \hline & & \\ \hline \end{array}$			
Toluene	UG/L	5	-				$\begin{array}{ c c c }\hline & 18 & \\ \hline & & \\ \hline \end{array}$	160 D

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty Cell - Not Detected. D - Result reported from a secondary dilution analysis. NA - Not analyzed.

 $[\]hbox{--No criteria.} \quad \hbox{*-Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.} \quad$

Locat	Location ID Sample ID			SR-002	SR-003	SR-003	SR-003	SR-004
Sam	ple ID			SR-002	SR-3	SR-003	SR-003	SR-4
Ma	ıtrix			Groundwater	Groundwater	Groundwater -	Groundwater	Groundwater
Depth In	terval (ft)		-	-		- 04/18/19	-
Date S	ampled			04/18/19	12/02/14	09/27/18		12/02/14
Parameter Units Criteria (1)			Criteria (2)					
Volatile Organic Compounds								
Trichloroethene	UG/L	5	-	4,300 D	6,000 D	2,900		0.69 J
Vinyl chloride	UG/L	2	-	2.8	28			
Xylene (total)	UG/L	5	-				21	130
Total Volatile Organic Compounds	UG/L	-	-	6,332.28	10,302.25	5,678	172.92	484.39
Semivolatile Organic Comp	ounds							
1,4-Dioxane	UG/L	-	1	0.60	NA	NA	1.3	NA
Metals								
Iron	UG/L	300	-	17,200	NA	NA	86,400	NA
Manganese	UG/L	300	-	140 J+	NA	NA	1,100 J+	NA
Dissolved Metals								
Iron	UG/L	300 *	-	990 J-	NA	NA	3,300 J-	NA
Manganese	UG/L	300 *	-	71	NA	NA	160	NA
Miscellaneous Paramete	ers							
Biochemical Oxygen Demand (BOD)	MG/L	-	-		NA	NA		NA
Chemical Oxygen Demand (COD)	MG/L	-	-	7.6 J	NA	NA	43.6	NA
Nitrate-Nitrogen	MG/L	10000	-		NA	NA		NA
Sulfate (as SO4)	MG/L	2.50E+05	-	17.7	NA	NA	106	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.



 $[\]hbox{--No criteria.} \quad \hbox{*-Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.}$

Empty Cell - Not Detected. D - Result reported from a secondary dilution analysis. NA - Not analyzed.

Locat	tion ID			SR-004	SR-005	SR-005	SR-005	SR-006
	ple ID			SR-004	SR-5	SR-005	SR-005	SR-6
	ıtrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth In		:)		-	-	-	-	-
Date S	ampled			04/19/19	12/02/14	09/27/18	04/19/19	12/02/14
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compou	ınds							
1,1,1-Trichloroethane	UG/L	5	-		7,000 D	13,000	1,200	77,000 D
1,1,2-Trichloroethane	UG/L	1	-		5.2			10
1,1-Dichloroethane	UG/L	5	-		7,000 D	30,000	17,000	34,000 D
1,1-Dichloroethene	UG/L	5	-		340 J	1,400	500	15,000 J
1,2-Dichloroethane	UG/L	0.6	-		18			35
1,2-Dichloroethene (cis)	UG/L	5	-		26	2,200	230	4,200 D
1,2-Dichloroethene (trans)	UG/L	5	-					
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	-		2.9 J			
Acetone	UG/L	50	-		130			100
Benzene	UG/L	1	-	6.8	300 D		83 J	86
Carbon disulfide	UG/L	60	-		0.66 J			8.6 J
Chloroethane	UG/L	5	-		10		78 J	42
Chloroform	UG/L	7	-		0.82 J			2.9
Chloromethane	UG/L	5	-	0.0	44		70.1	
Cyclohexane	UG/L		-	6.9	14		72 J	
Ethylbenzene	UG/L	5	-	1.5	12			19
Isopropylbenzene (Cumene)	UG/L	5	-					1.7
Methyl ethyl ketone (2- Butanone)	UG/L	50	-		15		20.1	
Methylcyclohexane	UG/L		-	3.3 J	3.0		38 J	12
Methylene chloride	UG/L	5	-		7.4			36
Tetrachloroethene	UG/L	5	-					3.2
Toluene	UG/L	5	-	2.4	250 D		96 J	140 J

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

^{- -} No criteria. * - Criteria apllicable for unfiltered metals. UG/L - Micrograms per liter. MG/L - Milligrams per liter. Empty Cell - Not Detected. D - Result reported from a secondary dilution analysis. NA - Not analyzed.

J - The reported concentration is an estimated value. J- - Estimated value, low bias. J+ - Estimated value, high bias.

Loca	Location ID Sample ID				SR-005	SR-005	SR-005	SR-006
Sam	ple ID			SR-004	SR-5	SR-005	SR-005	SR-6
Ma	atrix			Groundwater -	Groundwater -	Groundwater	Groundwater	Groundwater
Depth In	terval (ft	:)				- 09/27/18	-	-
Date S	ampled			04/19/19	12/02/14		04/19/19	12/02/14
			Criteria (2)					
Volatile Organic Compounds								
Trichloroethene	UG/L	5	-		1,300 D	3,200	1,900	9,500 D
Vinyl chloride	UG/L	2	-		5.4			150 J
Xylene (total)	UG/L	5	-	5.4	68			120
Total Volatile Organic Compounds	UG/L	-	-	26.3	16,508.38	49,800	21,197	140,466.4
Semivolatile Organic Comp	ounds							
1,4-Dioxane	UG/L	-	1	0.57	NA	NA	1,200	NA
Metals	•							
Iron	UG/L	300	-	48,900	NA	NA	140,000	NA
Manganese	UG/L	300	-	620 J+	NA	NA	1,700 J+	NA
Dissolved Metals								
Iron	UG/L	300 *	-	190	NA	NA	129,000	NA
Manganese	UG/L	300 *	-	48 J+	NA	NA	1,500 J+	NA
Miscellaneous Paramet	ers							
Biochemical Oxygen Demand (BOD)	MG/L	-	-		NA	NA	9.3	NA
Chemical Oxygen Demand (COD)	MG/L	-	-	50.2	NA	NA	80.6	NA
Nitrate-Nitrogen	MG/L	10000	-		NA	NA		NA
Sulfate (as SO4)	MG/L	2.50E+05	-	23.3	NA	NA	31.4	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.



 $[\]hbox{--No criteria.} \quad \hbox{*-Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.}$

 $\label{eq:condary} \textit{Empty Cell - Not Detected.} \quad \textit{D - Result reported from a secondary dilution analysis.} \quad \textit{NA - Not analyzed.}$

Locat	ion ID			SR-006	SR-006	SR-101	SR-101	SR-101
Sam	ple ID			SR-006	SR-006	SR-101	SR-101	SR-101
	trix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth In		:)		-	-	-	-	-
Date S	ampled			09/27/18	04/22/19	12/02/14	09/27/18	04/17/19
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compou	nds							
1,1,1-Trichloroethane	UG/L	5	-	2,900	2,200			
1,1,2-Trichloroethane	UG/L	1	-					
1,1-Dichloroethane	UG/L	5	-	31,000	7,100			
1,1-Dichloroethene	UG/L	5	-	850	360			
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-		550			
1,2-Dichloroethene (trans)	UG/L	5	-					
1,4-Dioxane	UG/L	-	1	NA	NA	NA	2.8	NA
2-Hexanone	UG/L	50	-					
Acetone	UG/L	50	-				3.8 J	
Benzene	UG/L	1	-		33 J	$ \begin{array}{c} 7.2 \end{array} $	0.59 J	
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-	160 J				
Chloroform	UG/L	7	-					
Chloromethane	UG/L	5	-					
Cyclohexane	UG/L	-	-					
Ethylbenzene	UG/L	5	-					
Isopropylbenzene (Cumene)	UG/L	5	-					
Methyl ethyl ketone (2- Butanone)	UG/L	50	-		06.1			0.62.1
Methylcyclohexane	UG/L	-	-		30 J			0.93 J
Methylene chloride	UG/L	5	-					
Tetrachloroethene	UG/L	5	-		15:			
Toluene	UG/L	5	-		\bigcirc 43 J			

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

r lags assigned during t	chemistry validation are shown.
	Concentration Exceeds Criteria (1)
	Concentration Exceeds Criteria (2)

 $[\]hbox{--No criteria.} \quad \hbox{*- Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.} \quad$

 $[\]label{eq:condary} \textit{Empty Cell - Not Detected.} \quad \textit{D - Result reported from a secondary dilution analysis.} \quad \textit{NA - Not analyzed.}$

Locat	ion ID			SR-006	SR-006	SR-101	SR-101	SR-101
Sam	ple ID			SR-006	SR-006	SR-101	SR-101	SR-101
Ma	trix			Groundwater	Groundwater	Groundwater -	Groundwater	Groundwater
Depth In	terval (ft)		-	-		- 09/27/18	-
Date S	ampled			09/27/18	04/22/19	12/02/14		04/17/19
Parameter Units Criteria C			Criteria (2)					
Volatile Organic Compounds								
Trichloroethene	UG/L	5	-	3,600	680			
Vinyl chloride	UG/L	2	-					
Xylene (total)	UG/L	5	-					
Total Volatile Organic Compounds	UG/L	-	-	38,510	10,996	7.2	7.19	0.93
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	290	NA	NA	3.3
Metals								
Iron	UG/L	300	-	NA	16,000	NA	NA	4,100 J-
Manganese	UG/L	300	-	NA	280 J+	NA	NA	61
Dissolved Metals								
Iron	UG/L	300 *	-	NA	3,500	NA	NA	110
Manganese	UG/L	300 *	-	NA	170 J+	NA	NA	28 J-
Miscellaneous Paramete	ers							
Biochemical Oxygen Demand (BOD)	MG/L	-	-	NA		NA	NA	
Chemical Oxygen Demand (COD)	MG/L	-	-	NA	39.3	NA	NA	29.4
Nitrate-Nitrogen	MG/L	10000	-	NA		NA	NA	
Sulfate (as SO4)	MG/L	2.50E+05	-	NA	31.2	NA	NA	118

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.



 $[\]hbox{--No criteria.} \quad \hbox{*- Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.} \quad$

 $\label{eq:condary} \textit{Empty Cell - Not Detected.} \quad \textit{D - Result reported from a secondary dilution analysis.} \quad \textit{NA - Not analyzed.}$

	tion ID			SR-104	SR-104	SR-104	SR-104	SR-105
	ple ID			SR-104	FD-092718	SR-104	SR-104	FD-120214-01
	trix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth In		:)		-	-	-	-	-
Date S	ampled	•	•	12/02/14	09/27/18	09/27/18	04/18/19	12/02/14
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compou	ınds							
1,1,1-Trichloroethane	UG/L	5	-	1.3			45	220,000 D
1,1,2-Trichloroethane	UG/L	1	-					
1,1-Dichloroethane	UG/L	5	-	15			230	79,000 D
1,1-Dichloroethene	UG/L	5	-	4.2			46	11,000 J
1,2-Dichloroethane	UG/L	0.6	-					160
1,2-Dichloroethene (cis)	UG/L	5	-	280 D	800	670	1,800	3,600
1,2-Dichloroethene (trans)	UG/L	5	-	16			9.0 J	
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	-					
Acetone	UG/L	50	-					1,300 J
Benzene	UG/L	1	-				4.9 J	
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					150
Chloroform	UG/L	7	-					
Chloromethane	UG/L	5	-					
Cyclohexane	UG/L	-	-					
Ethylbenzene	UG/L	5	-					
Isopropylbenzene (Cumene)	UG/L	5	-					
Methyl ethyl ketone (2- Butanone)	UG/L	50	-					
Methylcyclohexane	UG/L	-	-					
Methylene chloride	UG/L	5	-			93 J		
Tetrachloroethene	UG/L	5	-				10	
Toluene	UG/L	5	-					

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned durin	g chemistry validation are shown.
	Concentration Exceeds Criteria (1)
	Concentration Exceeds Critoria (2)

 $[\]hbox{--No criteria.} \quad \hbox{*-Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.}$

 $[\]label{eq:condary} \textit{Empty Cell - Not Detected.} \quad \textit{D - Result reported from a secondary dilution analysis.} \quad \textit{NA - Not analyzed.}$

Location ID			SR-104	SR-104	SR-104	SR-104	SR-105	
Sample ID				SR-104	FD-092718	SR-104	SR-104	FD-120214-01
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Depth Interval (ft)		-	-	-	-	-		
Date Sampled			12/02/14	09/27/18	09/27/18	04/18/19	12/02/14	
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compou	nds							
Trichloroethene	UG/L	5	-	12,000 D	15,000	14,000	2,700 D	76,000 DJ
Vinyl chloride	UG/L	2	-				33	120 J
Xylene (total)	UG/L	5	-					
Total Volatile Organic Compounds	UG/L	-	-	12,316.5	15,800	14,763	4,877.9	391,330
Semivolatile Organic Comp	ounds							
1,4-Dioxane	UG/L	ı	1	NA	NA	NA	12	NA
Metals								
Iron	UG/L	300	-	NA	NA	NA	940	NA
Manganese	UG/L	300	-	NA	NA	NA	61 J+	NA
Dissolved Metals								
Iron	UG/L	300 *	-	NA	NA	NA	380 J-	NA
Manganese	UG/L	300 *	-	NA	NA	NA	51	NA
Miscellaneous Paramete	ers							
Biochemical Oxygen Demand (BOD)	MG/L	-	-	NA	NA	NA		NA
Chemical Oxygen Demand (COD)	MG/L	-	-	NA	NA	NA	11.3	NA
Nitrate-Nitrogen	MG/L	10000	-	NA	NA	NA	_	NA
Sulfate (as SO4)	MG/L	2.50E+05	-	NA	NA	NA	36.4	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.



 $[\]hbox{--No criteria.} \quad \hbox{*-Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.} \quad$

 $\label{eq:condary} \textit{Empty Cell - Not Detected.} \quad \textit{D - Result reported from a secondary dilution analysis.} \quad \textit{NA - Not analyzed.}$

Location ID			SR-105	SR-105	SR-105	SR-106	SR-106	
Sam	ple ID			SR-105	SR-105	SR-105	SR-106	FD2-092718 Groundwater
	trix			Groundwater	Groundwater	Groundwater	Groundwater	
Depth In		:)		-	-	-	-	-
Date Sampled				12/02/14	09/27/18	04/22/19	12/02/14	09/27/18
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Volatile Organic Compou	ınds							
1,1,1-Trichloroethane	UG/L	5	-	140,000 D	180,000 J	200,000	3,600 D	NA
1,1,2-Trichloroethane	UG/L	1	-	25			3.0	NA
1,1-Dichloroethane	UG/L	5	-	64,000 D	94,000 J	75,000	9,900 D	NA
1,1-Dichloroethene	UG/L	5	-	21,000 J	2,100 J	3,100	210 D	NA
1,2-Dichloroethane	UG/L	0.6	-	130 J			2.0	NA
1,2-Dichloroethene (cis)	UG/L	5	-	3,200 J	7,600 J	7,600	450 D	NA
1,2-Dichloroethene (trans)	UG/L	5	-					NA
1,4-Dioxane	UG/L	-	1	NA	4,600	NA	NA	550
2-Hexanone	UG/L	50	-	1.6 J				NA
Acetone	UG/L	50	-	480 J	22,000 J	19,000 J	8.6 J	NA
Benzene	UG/L	1	-	1.2			0.68 J	NA
Carbon disulfide	UG/L	60	-	4.6 J				NA
Chloroethane	UG/L	5	-	160 J			100 J	NA
Chloroform	UG/L	7	-	3.9			0.34 J	NA
Chloromethane	UG/L	5	-	0.87 J				NA
Cyclohexane	UG/L	-	-					NA
Ethylbenzene	UG/L	5	-					NA
Isopropylbenzene (Cumene)	UG/L	5	-					NA
Methyl ethyl ketone (2- Butanone)	UG/L	50	-					NA
Methylcyclohexane	UG/L	-	-				0.57 J	NA
Methylene chloride	UG/L	5	-	87	2,200 J		1.5	NA
Tetrachloroethene	UG/L	5	-	8.0			13	NA
Toluene	UG/L	5	-	2.1			1.8	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

 $\hbox{--No criteria.} \quad \hbox{*-Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.}$

Empty Cell - Not Detected. D - Result reported from a secondary dilution analysis. NA - Not analyzed.

Concentration Exceeds Criteria (2)

J - The reported concentration is an estimated value. J- - Estimated value, low bias. J+ - Estimated value, high bias.

Location ID			SR-105	SR-105	SR-105	SR-106	SR-106	
Sam			SR-105	SR-105	SR-105	SR-106	FD2-092718	
Matrix Depth Interval (ft) Date Sampled			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			-	-	-	-	=	
			12/02/14	09/27/18	04/22/19	12/02/14	09/27/18	
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Volatile Organic Compou	ınds							
Trichloroethene	UG/L	5	-	45,000 DJ	82,000 J	92,000	69	NA
Vinyl chloride	UG/L	2	-	310 J			95	NA
Xylene (total)	UG/L	5	-	1.2 J			1.5 J	NA
Total Volatile Organic Compounds	UG/L	-	-	274,415.47	394,500	396,700	14,467.99	550
Semivolatile Organic Comp	ounds							
1,4-Dioxane	UG/L	-	1	NA	NA	3,100	NA	NA
Metals								
Iron	UG/L	300	-	NA	NA	14,100	NA	NA
Manganese	UG/L	300	-	NA	NA	310 J+	NA	NA
Dissolved Metals								
Iron	UG/L	300 *	-	NA	NA	11,100	NA	NA
Manganese	UG/L	300 *	-	NA	NA	270 J+	NA	NA
Miscellaneous Paramet	ers							
Biochemical Oxygen Demand (BOD)	MG/L	-	-	NA	NA	57.8 J	NA	NA
Chemical Oxygen Demand (COD)	MG/L	-	-	NA	NA	127	NA	NA
Nitrate-Nitrogen	MG/L	10000	-	NA	NA		NA	NA
Sulfate (as SO4)	MG/L	2.50E+05	-	NA	NA	11.8	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.



 $[\]hbox{--No criteria.} \quad \hbox{*-Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.} \quad$

Empty Cell - Not Detected. D - Result reported from a secondary dilution analysis. NA - Not analyzed.

Location ID		SR-106	SR-106	SR-108	SR-108	SR-108 SR-108			
Sample ID			SR-106	SR-106	SR-108			SR-108	
	Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
_	nterval (ft	t)		-	-	-	-	-	
Date Sampled			09/27/18	04/17/19	12/02/14	09/27/18	04/18/19		
Parameter	Units	Criteria (1)	Criteria (2)						
Volatile Organic Compo	unds								
1,1,1-Trichloroethane	UG/L	5	-	1,800	1,100			12	
1,1,2-Trichloroethane	UG/L	1	-						
1,1-Dichloroethane	UG/L	5	-	7,200	3,300	190	130	43	
1,1-Dichloroethene	UG/L	5	-	89 J	59	16 J	2.1 J	9.5	
1,2-Dichloroethane	UG/L	0.6	-						
1,2-Dichloroethene (cis)	UG/L	5	-	420	250	520	39	480 D	
1,2-Dichloroethene (trans)	UG/L	5	-		8.8 J	52	50	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
1,4-Dioxane	UG/L	-	1	520	NA	NA	NA	NA	
2-Hexanone	UG/L	50	-						
Acetone	UG/L	50	-				17 J		
Benzene	UG/L	1	-					2.8	
Carbon disulfide	UG/L	60	-						
Chloroethane	UG/L	5	-	160 J	91				
Chloroform	UG/L	7	-						
Chloromethane	UG/L	5	-						
Cyclohexane	UG/L	-	-				2.0 J	6.0	
Ethylbenzene	UG/L	5	-					0.34 J	
Isopropylbenzene (Cumene)	UG/L	5	-						
Methyl ethyl ketone (2- Butanone)	UG/L	50	-						
Methylcyclohexane	UG/L	-	-				2.2 J	8.4	
Methylene chloride	UG/L	5	-						
Tetrachloroethene	UG/L	5	-					0.35 J	
Toluene	UG/L	5	-					1.4	

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

^{- -} No criteria. * - Criteria apllicable for unfiltered metals. UG/L - Micrograms per liter. MG/L - Milligrams per liter. Empty Cell - Not Detected. D - Result reported from a secondary dilution analysis. NA - Not analyzed.

J - The reported concentration is an estimated value. J- - Estimated value, low bias. J+ - Estimated value, high bias.

Location ID Sample ID Matrix			SR-106	SR-106	SR-108	SR-108	SR-108	
			SR-106	SR-106	SR-108	SR-108	SR-108 Groundwater	
			Groundwater -	Groundwater	Groundwater	Groundwater		
Depth Interval (ft)		-		-	-	-		
Date S	ampled			09/27/18	04/17/19	12/02/14	09/27/18	04/18/19
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compou	nds							
Trichloroethene	UG/L	5	-		58	200	3.5 J	530 D
Vinyl chloride	UG/L	2	-		100		18	47
Xylene (total)	UG/L	5	-					
Total Volatile Organic Compounds	UG/L	-	-	10,189	4,966.8	978	263.8	1,157.79
Semivolatile Organic Comp	ounds							
1,4-Dioxane	UG/L	1	1	NA	240	NA	NA	1.7
Metals								
Iron	UG/L	300	-	NA	2,900 J-	NA	NA	28,500
Manganese	UG/L	300	-	NA	49	NA	NA	160 J+
Dissolved Metals								
Iron	UG/L	300 *	-	NA	690	NA	NA	1,300 J-
Manganese	UG/L	300 *	-	NA	41 J-	NA	NA	58
Miscellaneous Paramete	ers							
Biochemical Oxygen Demand (BOD)	MG/L	-	-	NA		NA	NA	
Chemical Oxygen Demand (COD)	MG/L	-	-	NA	119	NA	NA	21.2
Nitrate-Nitrogen	MG/L	10000	-	NA	0.79	NA	NA	
Sulfate (as SO4)	MG/L	2.50E+05	-	NA	142	NA	NA	11.8

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA. Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.



 $[\]hbox{--No criteria.} \quad \hbox{*- Criteria apllicable for unfiltered metals.} \quad \hbox{UG/L-Micrograms per liter.} \quad \hbox{MG/L-Milligrams per liter.} \quad$

 $\label{eq:condary} \textit{Empty Cell - Not Detected.} \quad \textit{D - Result reported from a secondary dilution analysis.} \quad \textit{NA - Not analyzed.}$

TABLE 5 SUMMARY OF PFAS IN GROUNDWATER SAMPLES LAPP INSULATOR SITE

Sample ID		SR-003	SR-101	SR-105	SR-106		
Matrix		Groundwater	Groundwater	Groundwater	Groundwater		
Date Sample	t	09/27/18	09/27/18	09/27/18	09/27/18		
Parameter	Units		Criteria				
	<u> </u>	(1)	(2)				
Per- and Polyfluoroalkyl Substances							
Perfluorobutanesulfonic acid (PFBS)	NG/L	100	-	0.35 J	1.8 U	1.9 U	1.8 U
Perfluorobutanoic acid (PFBA)	NG/L	100	-	6.8 U	3.1 U	1.9 U	1.8 U
Perfluorodecane sulfonate (PFDS)	NG/L	100	-	1.7 U	1.8 U	1.9 U	1.8 U
Perfluorodecanoic acid (PFDA)	NG/L	100	-	1.7 U	1.8 U	1.9 U	1.8 U
Perfluorododecanoic acid (PFDoA)	NG/L	100	-	1.7 U	1.8 U	1.9 U	1.8 U
Perfluoroheptanesulfonic acid (PFHpS)	NG/L	100	-	1.7 U	1.8 U	1.9 U	1.8 U
Perfluoroheptanoic acid (PFHpA)	NG/L	100	-	0.41 J	1.8 U	0.41 J	0.36 J
Perfluorohexanesulfonic acid (PFHxS)	NG/L	100	-	1.7 U	1.8 U	1.9 U	1.8 U
Perfluorohexanoic acid (PFHxA)	NG/L	100	-	1.2 J	1.8 U	0.68 J	0.87 J
Perfluorononane sulfonate (PFNS)	NG/L	100	-	1.7 U	1.8 U	1.9 U	1.8 U
Perfluorononanoic acid (PFNA)	NG/L	100	-	1.7 U	1.8 U	0.41 J	1.8 U
Perfluorooctane sulfonamide (PFOSA)	NG/L	100	-	1.7 U	1.8 U	1.9 U	1.8 U
Perfluorooctanesulfonic acid (PFOS)	NG/L	10	70	1.7 U	1.8 U	1.9 U	1.8 U
Perfluorooctanoic acid (PFOA)	NG/L	10	70	1.7 U	1.8 U	1.9 U	1.8 U
Perfluoropentane sulfonate (PFPeS)	NG/L	100	-	1.7 U	1.8 U	1.9 U	1.8 U
Perfluoropentanoic acid (PFPeA)	NG/L	100	-	1.7 U	1.8 U	1.9 U	1.8 U
Perfluorotetradecanoic acid (PFTeA)	NG/L	100	-	1.7 U	1.8 U	1.9 U	1.8 U
Perfluorotridecanoic acid (PFTriA)	NG/L	100	-	1.7 U	1.8 U	1.9 U	1.8 U
Perfluoroundecanoic acid (PFUnA)	NG/L	100	-	1.7 U	1.8 U	1.9 U	1.8 U
Fluorotelomer sulfonate 4:2	NG/L	100	-	17 U	18 U	19 U	18 U
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2)	NG/L	100	-	17 U	18 U	9.5 J	18 U
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2)	NG/L	100	-	17 U	18 U	19 U	18 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NG/L	100	-	17 U	18 U	19 U	18 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NG/L	100	-	17 U	18 U	19 U	18 U
Total PFOA and PFOS	NG/L	-	70	ND	ND	ND	ND
Total Per- and Polyfluoroalkyl Substances	NG/L	500	-	1.96	ND	11	1.23

Criteria (1)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

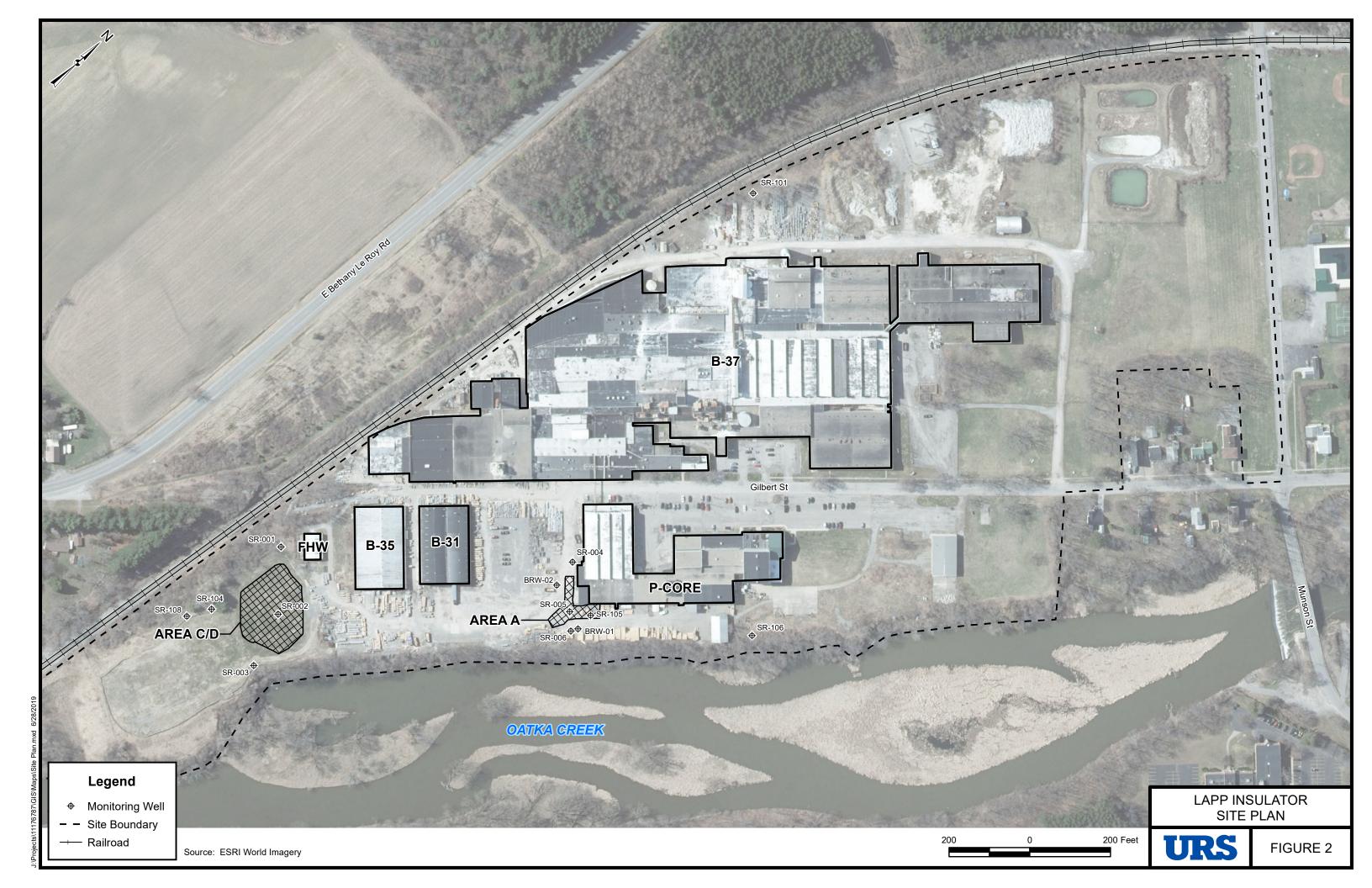
Criteria (2)- USEPA Drinking Water Health Advisory (USEPA, May 2016)

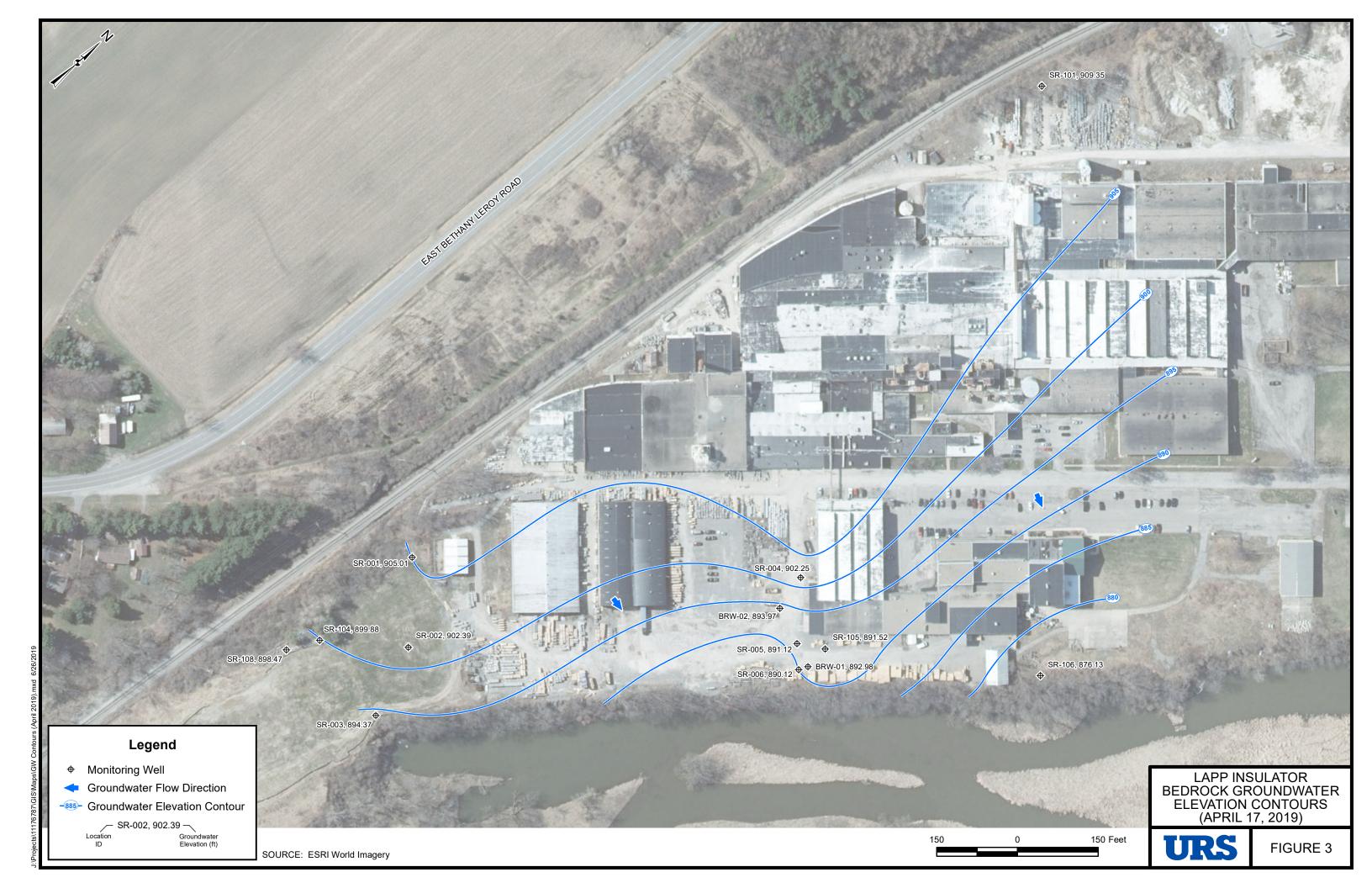
Flags assigned during chemistry validation are shown.

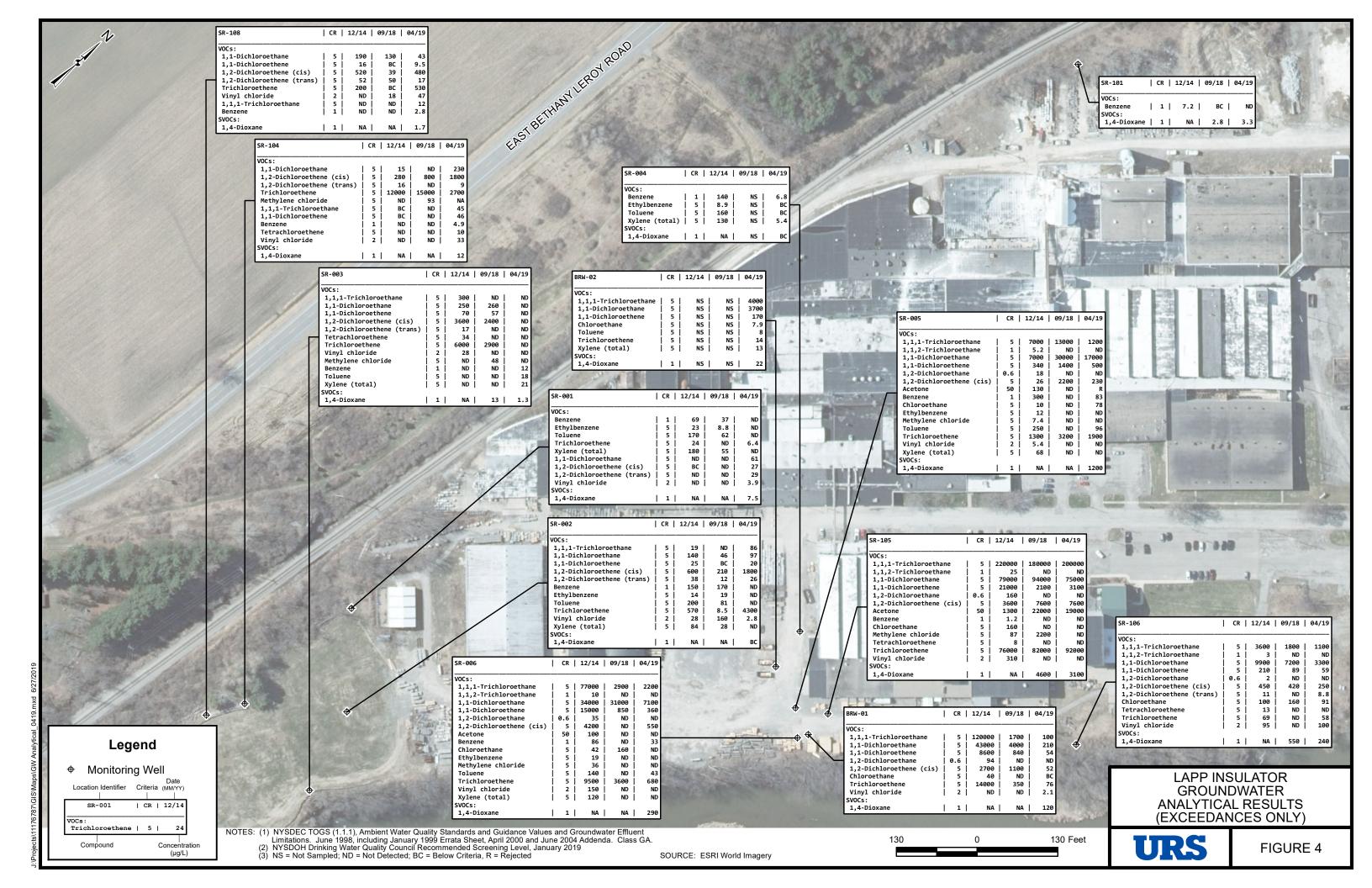
- - No criteria. NG/L Nanograms per liter. ND Not detected.
- J The reported concentration is an estimated value. U Not detected above the reported quantitation limit.

FIGURES









ATTACHMENT 1 PURGE LOGS

Project:	Laff.	Insulat	270	Site:	Le Roy	NY	Well #:	BRW-0	1_
Sampling	Personnel:	T- U	Chan		Date: L	1/22/19	Company:		
Purging/ Sampling Device:	600	pump		Tubing Type:	LOPEX	Silican	Tubing Inlet:		
Measuring Point:	Top of Riser	Initial Depth to Water (feet):	13.16	Depth to Well Bottom (feet):	29.60	Well Diameter (inches):	4	Screen Length (feet):	
Casing Type:				Volume in 1 Well Casing (liters):	40.6		Estimated Purge Volume (liters):	24.5ge	Q
Sample ID:	BRW-	011-MS/	Sample Time:		5	QA/QC:	MS/MSI) + Field	Duj
Sample	e Parameters:	<u> </u>	20/8-	*/0 >					
	Comments:	<u> </u>	20190	456					

PURGE PARAMETERS

TIME	pН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)
1055	7.14	12.52	3.60	7.54	219	-79	350	13.16
1100	7-77	11.13	3.77	1.16	188	-149	350	13-82
1105	783	10.64	3.87	0.81	165	-175	35C	14.62
1110	7.87	10.23	3.89	0.74	104	-187	350	15-25
1115	7.59	10-34	3.86	0.69	100	-199	35C)	15.95
IIZO	7.91	6.42	3.85	0.66	94.0	7205	350	16.62
1125	7.92	10.64	3.82	0.63	89.6	-212	370	17.35
1130	7.93	10.48	3.83	0.63	59.2	-216	350	18.17
1135	7.94	10-49	3.84	0.62	863	-219	350	18.95
						,		
1								
Tolerance:	0.1	1	3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{ovl} = \pi t^2 h$)

Project:	Lago.	Insulat	or5	Site:	LeRo	y NY	Well#:	BLW-02
Sampling	Personnel:	T. c	oban		Date:	4/19/19	Company:	91
Purging/ Sampling Device:	Geo	pump		Tubing Type:	LPPEZ	-silican	Tubing Inlet:	é.
Measuring Point:	Top of Riser	Initial Depth to Water (feet):	17.65	Depth to Well Bottom (feet):	29.50	Well Diameter (inches):	4	Screen Length (feet):
Casing Type:				Volume in 1 Well Casing (liters):	41.6	, E.	Estimated Purge Volume (liters):	~5.5 yal
Sample ID:	BRW	-07	Sample Time:	103	5	QA/QC:	non	e
Sample	e Parameters:				32	e A		, il
	Comments:							2

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)
0945	7.41	12.70	1.96	1.66	295	-146	5000	12.65
0950	7.57	12.73	1.97	0.95	235	-177	350	13.70
0955	7.59	12-45	1.98	0.77	192	-197	350	14-74
1000	7.60	12.53	1.98	0.68	173	-204	330	15-30
1005	7.63	12-30	1-99	0-68	150	-212	330	16.05
1000	7.59	12-25	1.99	0.67	151	-213	330	16-61
1015	7.55	12-20	7.00	0.66	142	-212	330	17.15
1020	7.44	1227	2.00	0-64	136	-211	330	17.89
1025	7.61	12.21	2.00	0-61	124	~222	330	18-48
1030	7-54	12-22	2.00	0.62	125	-224	330	19.19
1035	7.58	1222	5,00	0.62	124	-225	330	19.71
					,			
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cvl} = \pi r^2 h$)

Project:	Lage.	Insu led	<i>2</i> /S	_ Site:	Lehoy	NY	Well #:	5R-001
Sampling	Personnel:	Ton	Urbo	M	Date: _	4/15/19	Company:	
Purging/ Sampling Device:	6004	onf		Tubing Type:	LDPEds	ilicon	Tubing Inlet:	
Measuring Point:	Top of Riser	Initial Depth to Water (feet):	9.70	Depth to Well Bottom (feet):	44.80	Well Diameter (inches):	_4	Screen Length (feet):
Casing Type:				Volume in 1 Well Casing (liters):	86-7		Estimated Purge Volume (liters):	r 8 gal
Sample ID:	5R-0	01	Sample Time:	123	5	QA/QC:	none	Ø*
Sample	Parameters:	derk	browd	Color				
	Comments.	901 6	-19 -1					+:

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)
1130	7.5	15.08	1.68	1.60	71000	-139	500	9.70
1135	7.69	13,03	1.89	0.92	71000	-185	500	10.35
1140	7.81	12.53	1.87	0.82	71000	-212	500	11.18
1145	7.96	11.80	1.90	0.70	71000	-241	500	12.15
1150	8.00	11.84	1.86	0.94	866	-263	500	15.21
1155	7.80	10.91	1.84	1.47	757	-205	500	14.42
1200	7.64	10.82	1-83	7.04	714	-256	500	15.40
1205	7.59	11.94	1-74	2.29	690	-257	300	1620
1215	7-98	11.96	1-74	1.26	659	-278	300	17.33
1220	8.05	12.18	1.73	1.35	733	-288	3∞	18.06
1225	8.07	12,26	1.72	1.40	800	~ 293	3∞	18.80
1230	8.09	12.25	1.71	1-42	838	-796	300	19-10
1235	8.09	12.40	1-72	1.45	824	-300	300	17.81
				_				
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cvl} = \pi r^2 h$)

Project:	Lagg	Insul	tors	Site:	LeRoy	NY	Well #:	5R-002
Sampling	Personnel:	Tic	rban	£	Date:	4/18/19	_Company:	
						*		
Purging/ Sampling Device:	Geo	Pump		Tubing Type:	LPPES	Silicon	_ Tubing Inlet:	
Measuring Point:	Top of Riser	Initial Depth to Water	12-95	Depth to Well Bottom (feet):		Well	4	Screen Length (feet):
Casing Type:				Volume in 1 Well Casing (liters):	64-1	-	Estimated Purge Volume (liters):	~ 8 gal
Sample ID:	5R-0	02	Sample Time:	1415	5	_ QA/QC:	NOAC	,
Sample	Parameters:							
	Comments:	cloud	7					
			r					

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)
1315	7,84	15.37	1.47	7.70	733	-145	400	12.95
1320	7.71	13.49	1.84	1-24	693	-184	400	14.00
1325	7.86	14.83	1.01	1.37	423	-223	400	14.84
1330	7.85	13.82	0-980	1.43	3/2	-23/	400	15.52
1335	7.84	12.74	0-923	1.49	171	-238	400	15.95
1340	7.76	12,06	0.932	1.19	225	-234	400	16.42
1345	7.69	12.38	0.908	1.07	175	-230	400	16.65
1350	7.62	13.27	0.890	1.00	166	-233	400	16.85
1355	7.61	12.55	0.910	1.03	161	-230	400	17.05
1400	7.59	13.01	0.900	0.95	153	-249	400	1711
1405	7.88	12.92	0.891	0.85	142	-251	400	17.22
1410	7.86	12.91	0.892	0.81	137	-250	400	17.34
1415	7.81	12.86	0.894	0.79	134	-246	400	17.39
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cvl} = \pi r^2 h$)

Project:	Laff?	Insola	fors	Site:	Leko	NY	Well#:	5R-003
Sampling	Personnel:	T-U,	Local		_ Date:	4/18/19	Company:	(40)
Purging/ Sampling Device:	Geop	~ mp		Tubing Type:	LOPES	- 5. licon	Tubing Inlet:	
Measuring Point:	Top of Riser	Initial Depth to Water (feet):	17.10	Depth to Well Bottom (feet):	<u> 28.48</u>	Well Diameter (inches):	4	Screen Length (feet):
Casing Type:		·····		Volume in 1 Well Casing (liters):	28,1	-	Estimated Purge Volume (liters):	~ 6 gal
	SR-0	03	Sample Time:	153	5	QA/QC:	nor	e
	Comments: _	clear	7				4)(ii.

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)
1435	7.61	13.65	0,771	3.98	26-7	-120	550	17.16
1446	7.07	12.97	0.76	4.63	14.4	-93	300	17.95
1445	7.07	13.05	0.761	4.22	8.9	-89	300	18.22
1450	7.07	13,77	0.762	3.57	5.4	-84	300	18-40
1455	7.13	13.04	0-778	1.66	10.6	-85	300	18.55
1500	7.08	13.14	0.781	1-58	9.3	-82	300	18.60
1505	6.98	12.90	0.784	1.49	6.9	-77	330	18.75
1510	6.92	13,02	0.780	1-39	4.5	-74	330	18.90
1515	6.86	12.54	0.787	1.34	3-1	-72	330	19.00
1520	6.82	11,72	0.818	1.32	0.6	-71	330	19.02
1525	7.0	11.49	0.822	1.26	<i>د</i> ٥	-91	370	1904
1530	7.03	11.32	0.824	1.24	0.0	-53	330	19.05
1575	7.02	11.31	0.824	1-50	<i>گ</i> ِ ن	-93	330	19.06
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Project:	Lagg:	Insulato	15	Site:	LeRoy	NY	Well #:	5R-004	
Sampling	Personnel:	T. U.	ban		Date:	4/19/19	_Company:		
Purging/ Sampling Device:	Geople	im p		Tubing Type:	LDPEL	si licon	_Tubing Inlet:		
Measuring Point:	Top of Riser	Initial Depth to Water (feet):	5,60	Depth to Well Bottom (feet):	34.55	Well Diameter (inches):	4	Screen Length (feet):	
Casing Type:				Volume in 1 Well Casing (liters):	71.5		Estimated Purge Volume (liters):	29 gal	
	SR-004	1	Sample Time:	090	5	QA/QC:	FD ?	ne MS/MSD	一 <u>テ</u> ひ
Sample	Parameters: Comments:	dork	brown	calan					

PURGE PARAMETERS

TIME	pН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)
0805	6.31	12.74	1-88	3.66	71000	123	600	5-60
0810	7.72	12.16	1.83	1.07	857	-33	600	7.30
0315	8-12	12.50	1.77	0.83	748	-91	500	8.05
0820	8.32	11.96	1.78	0.79	730	-133	500	8:05
0825	8.32	11.99	1.77	0.69	681	-162	500	8,05
0830	8.32	12.11	1.75	0.68	686	-171	500	8.05
0840	5.68	11.84	1.74	0.62	689	-215	500	14.10
0845	8.61	11.88	1.73	0.62	828	- 27	500	15,00
3850	5.50	1203	1-72	0.64	869	-22/	500	15.80
0855	8.69	12.09	1.72	0.64	837	-234	350	16.50
0900	8.67	12.09	1.72	0.67	822	-236	350	17.25
0905	8.74	12.12	1.72	0.69	824	-241	350	18.00
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Project:	Lapp	Insul	ators	Site:	LeRO	Y,NY	Well #:	5R-005
Sampling	Personnel:	T. C	o bun		Date:	4/19/19	Company:	 -
Purging/ Sampling Device:	Geopo	мρ		Tubing Type:	LDIEX	silican	Tubing Inlet:	
Measuring Point:	Top of Riser	Initial Depth to Water (feet):	15-10	Depth to Well Bottom (feet):	3 <i>3.5</i> 0	Well Diameter (inches):		Screen Length (feet):
Casing Type:				Volume in 1 Well Casing (liters):	45.4	8	Estimated Purge Volume (liters):	145 gal
Sample ID:	5R-0	305	Sample Time:	120	<u> </u>	QA/QC:	non-	۹
Sample	Parameters:							
	Comments:							

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)
1120	6.90	12.15	5-31	2.60	878	-118	470	15.10
1125	7.14	11-40	5.43	1-12	452	-155	470	1615
1130	7.16	11.08	5.47	0.75	466	-191	470	17.31
1135	6.98	11.22	5.45	0.64	590	-186	470	18.25
1140	7.26	11.23	5-44	0.58	899	-212	340	19.30
1145	7.2 C	11-30	5.44	0.61	906	-215	260	19.85
1150	7.24	11.47	5-42	0.59	899	-218	260	20.50
1155	7.21	11.39	5-45	0.59	910	-221	266	21.42
1200	7.18	11.42	5.47	0.62	890	-220	260	21.80
Tolerance:	0.1	1	3%	10%	10%	+ or - 10		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cvl} = \pi r^2 h$)

Project:	Lapp	Insula	entors	Site:	Lehoy,	NY	_ Well #:	5R-001	6
Sampling	Personnel:	T. U.	rbeca		_ Date:	4/22/19	_Company:		
Purging/ Sampling Device:	6 eo,	Punp		Tubing Type:	WHEN	Silicon	Tubing Inlet:		
Measuring Point:	Top of Riser	Initial Depth to Water (feet):	16.11	Depth to Well Bottom (feet):	34.44	Well Diameter (inches):	4	Screen Length (feet):	2.23
Casing Type:				Volume in 1 Well Casing (liters):	45.3		Estimated Purge Volume (liters):	- 5-5 g	al
Sample ID:	5R-00	Ь	Sample Time:	1030	٥	QA/QC:	Done	2	8
Sample	e Parameters:								-
	Comments:	Th.							

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)
0945	7.58	10-52	0.944	7.87	365	751-	440	16-11
0950	7.49	10.54	0.911	1.54	351	-143	440	16.80
0955	7.61	10.47	0.881	90	385	-166	370	17.71
1000	7.62	10,50	0.873	6-93	512	-177	350	1835
1005	764	10.61	0-877	0-84	535	-185	350	18.95
1010	7.64	10.65	0.872	0.80	542	-190	350	19-51
1015	7.64	10.68	0-867	0-76	553	-195	350	20-45
1020	7.63	10.68	0.864	0.72	515	-178	350	21.40
1025	7.65	10.79	0.866	0,71	458	- 295	350	27.48
1030	7.66	10.67	0-867	0.70	450	-704	350	23.15
		127		2				
								ь 1
		_						
Tolerance:	0.1		3%	10%	10%	+ or - 10	=00	

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Project:	Lapp]	Ins.late	>3	Site:	LeRo	7,17	_ Well #:	5R-101	
Sampling	Personnel:	T.O.	rb-en		Date:	4/17/19	_Company:		
Purging/ Sampling Device:	Ссер	cmp		Tubing Type:	LDFEJ	silian	_ Tubing Inlet:	9	
Measuring Point:	Top of Riser	Initial Depth to Water (feet):	6.81	Depth to Well Bottom (feet):	44.58	Well Diameter (inches):	_4	Screen Length (feet):	
Casing Type:			10	Volume in 1 Well Casing (liters):	93,3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Estimated Purge Volume (liters):	~15 gal	
Sample ID:	5R-1	01	Sample Time:	1449	5	QA/QC:	no	ne	
Sample	e Parameters:								
	Comments:	george	mp max	ed out					-140

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)
1240	7.44	13,10	1-16	1-46	71000	-110	350	681
1245	7.33	11.70	1.24	1.32	930	-118	350	7.07
1250	7.22	11.54	して多	1.05	302	-121	350	7.18
1255	7.05	12.02	1-18	0-86	139	-122	375	7.25
1300	6.90	11.42	1.06	0.90	131	-125	450	7.25
1305	681	11.05	1-11	0-88	102	-125	475	7.36
1310	6 69	10.95	1.04	0.98	128	-122	475	7.30
1315	6.69	10.94	1.06	1.11	157	-120	475	7.30
1320	6.69	10.93	1.06	094	198	-/17	475	7.30
1325	6.55	10.62	1.06	0-93	243	-12/	500	7.38
1330	6.50	10.70	1.06	0.80	31-2	-124	500	7.44
1335	6.48	10-70	1.06	0.85	30.8	-126	500	7.47
1340	4.46	10.69	1.06	0.92	24.6	-129	500	7.50
1345	6.45	10-70	1.07	1.09	12.0	-131	500	7.52
1350	6.44	10.72	1.08	1.15	10-1	-132	500	7.52
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cvl} = \pi r^2 h$)

Project:	Lapp	Insc	lators	Site:	LeR	DY, NY	_ Well #:	SR-101
Sampling	Personnel:	T- U,	ben		_ Date:	4/17/19	_Company:	
Purging/ Sampling Device:	Leof	Ромр		Tubing Type:	LOPE +	5. (icol	_ Tubing Inlet:	
Measuring Point:	Top of Riser	Initial Depth to Water (feet):	L-81	Depth to Well Bottom (feet):	44.58	Well Diameter (inches):	4	Screen Length (feet):
Casing Type:				Volume in 1 Well Casing (liters):	93.3	, -	Estimated Purge Volume (liters):	15 gul
·	SR-14	21	Sample Time:	1445	5	_ QA/QC:	Non	e
	Comments:	geop	cinp me	axed c	+ +			

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)
1355	6.44	10.76	1.08	1-28	1-9	-133	500	7.55
1400	6.38	10-71	1.08	0-64	5.7	-132	5000	7.55
1405	6.37	10.73	1.08	0-67	0.5	-133	500	7.55
1410	6.41	10.68	1.08	0.69	0.0	-136	500	7.55
1415	6.76	10.74	1-07	0.68	0.0	-153	500	7.57
1420	6.82	10.77	1.07	0.69	0.0	-159	500	7.57
1425	696	10.81	1.07	0.69	0.0	-165	500	7.5%
1430	6.83	10.78	1.07	0-69	0.0	-159	500	7.60
1435	6,72	10.82	1.07	0-69	0.0	-155	500	7.60
1440	1-67	10.86	1.07	0.69	<i>٥٥</i>	-154	7500	7.60
1445	6.68	10.83	1.07	0-69	0.0	-158	500	7.60
Tolerance:	0.1	1	3%	10%	10%	+ or - 10		108-

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Project: Lapp Insulators Site: Leho	7, NT Well#: SR-104
Sampling Personnel: Date:	4/18/19 Company:
Purging/ Sampling Device: Geofonf Tubing Type: LPFE+	- Sごうこの Tubing Inlet:
Measuring Point: Top of Riser (feet): 10.75 Depth to Well Bottom (feet): 27.75	Well Screen Diameter Length (inches): (feet):
Casing Volume in 1 Well Casing Type: (liters):	Estimated Purge Volume (liters): 5 9
Sample ID: 5 R - 10 Y Sample Time: 10 35 Sample Parameters:	QA/QC: 1012
Comments: dark grey color	

PURGE PARAMETERS

TIME	pН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)	
0945	8.03	12.12	0.571	2.44	71000	-45	400	10.75	
0950	7.53		0.537	1.07	452	-102	400	11.37	
1000	7.26	9.28	0.604	0-78	269	-108	430	12.05	
1005	7.27	9.35	0.606	0-70	212	-112	350	12-11	
1010	7.31	9.42	0.608	0.66	166	-115	350	17.16	: .
1015	7.25	9.54	0.607	0.64	148	-114	350	(2.72)	
1020	7-21	10.27	0.597	0.60	177	-114	350	12.22	
1025	7.17	10.35	0.598	0.58	109	-113	300	12.30	- point mara
1030	7.15	10-50	0.602	0.57	101	-114	300	17-17	
1035	7-19	10-51	0-600	0.58	97.3	-1/6	300	12.15	
		,				. 7			
	r								
Tolerance:	0.1		3%	10%	10%	+ or - 10			l

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{ovl} = \pi r^2 h$)

Project:	Lapp]	Insulate	×'S	Site:	LeRoy	y NY	_ Well #:	5K-105
Sampling	Personnel:	T. U.	been		Date:	4/22/19	_Company:	
Purging/ Sampling Device:	Geofu	мр		Tubing Type:	LDPEOS	ilican	Tubing Inlet:	
Measuring Point:	Top of Riser	Initial Depth to Water (feet):	13.47	Depth to Well Bottom (feet):	27.30	Well Diameter (inches):	4	Screen Length (feet):
Casing Type:			5	Volume in 1 Well Casing (liters):	342		Estimated Purge Volume (liters):	24.5gel
Sample ID:	SR-10;	5	Sample Time:	0850)	QA/QC:	none	n
Sample	Parameters:							<u> </u>
	Comments:							

PURGE PARAMETERS

				100000				
TIME	pН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)
0800	6.14	12.36	3.67	2.88	65.8	141	250	13,47
2805	6.55	12.31	3.70	2.05	75-9	6	250	13.91
0810	6.67	12.21	3.73	1.59	55.9	-38	250	14.05
0815	6.75	11.88	3.79	1-11	18-7	-63	250	14-70
0820	6.69	11.56	3-80	1-00	9.1	-67	250	15-24
8825	6-63	11-40	3.83	0.93	5-8	-70	250	15-72
0830	6.55	11-26	3.85	0.88	6	-71	250	16.33
0835	6.51	11-12	3.86	0.85	7.3	-72	250	16.78
0840	6.72	11.09	3-87	0:79	6.2	-87	350	17.45
0845	6.68	10.95	3.88	0.79	5.9	-87	350	17.80
0850	6.66	11.04	3.88	0.77	5-8	-86	350	18.42
	-							
								-
Tolerance:	0.1	1	3%	10%	10%	+ or - 10		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Project:	Lafe	Insulai	tors	Site:	Leloy	1,NT	_ Well #:	5R-106
Sampling	Personnel:	T- U	ban		Date:	4/1/19	Company:	
Purging/ Sampling Device:	Gee	PCMP Initial Depth		Tubing Type: Depth to	LPF =	Sirsin Well	_ Tubing Inlet:	Screen
Measuring Point:	Top of Riser	to Water	22.68		34.90		4	Length (feet):
Casing Type:				Volume in 1 Well Casing (liters):	30.7		Estimated Purge Volume (liters):	26 gal
Sample ID:			Sample Time:	162	20	QA/QC:	Non	۹
Sample	Parameters:			_ t d				¥
	Comments.	geofo	arp weeks	ed out				

PURGE PARAMETERS

TIME	РH	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)
1520	7.01	13.16	1.99	1.37	54.3	-97	400	55-12
1525	6.93	12-78	1-99	1.17	567	-98	400	27-56
1530	4-88	13.54	1.94	0.92	41.5	-162	400	22.36
1535	6.87	13-16	1.98	0.81	33.7	-105	400	22.88
1540	6.94	12.99	2.00	0.76	28.1	-112	400	22-90
1545	6.92	25. [3]	2-00	0.71	25.7	-/13	400	22.90
1550	6.88	13.31	202	0.64	20-1	-112	400	72.98
1555	6.84	14,90	2.00	0.56	19.3	-112	400	22.95
1600	6.80	14.92	2.01	0.56	16-1	-112	400	22.95
1605	6.77	14.87	2-14	0.54	150	-//0	400	22.95
1610	6.96	14.85	2-17	0.52	14.3	-120	400	22.96
1615	6-97	14.88	2-21	051	13.7	-121	400	2296
1620	6-97	14.48	2.72	0.52	12.4	-121	400	2296
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cvl} = \pi l^2 h$)

Project:	Lapp I	nsulat	er5	Site:	Lehoy	, NY	_ Well #:	SR-108
Sampling	Personnel:	T-Url	æn_		Date:	4/18/19	_Company:	_
Purging/ Sampling Device:	Geope	•	****	•	LDIEL:		_Tubing Inlet:	
Measuring Point:	Top of Riser	Initial Depth to Water (feet):	12.18	Depth to Well Bottom (feet):	36.20	Well Diameter (inches):	4	Screen Length (feet):
Casing Type:				Volume in 1 Well Casing (liters):	59.3	; -	Estimated Purge Volume (liters):	25 gal
Sample ID:	SR-10	8	Sample Time:	0915		_ QA/QC:	Non	<u>e</u>
Sample	Parameters:							
	Comments:	rust	color	purge	meter			

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet btor)
0820	8.46	12.61	0.893	5.90	193	49	710	12.18
0825	8-61	11.16	0.898	1.69	178	-26	310	13.30
0830	8.59	11.17	0.894	1.17	143	-67	310	13.82
0835	8.58	11.20	0.887	0.99	157	-85	310	14.40
0840	8.55	10.80	0.895	0.92	134	-104	310	14.94
0845	8.42	10.69	0-897	0.85	124	-121	310	15.60
0850	8.38	10.76	0.895	0.81	98.5	-135	3/0	16.25
0855	8.33	10.85	0.892	0.79	80.4	-137	310	16-67
0900	8-18	10.61	0-896	0.80	104	-132	310	17-17
0905	8.19	10.86	0.890	0.72	59.4	-136	3/0	17-70
0910	8.16	10.89	0.889	0.70	50,4	-137	310	18-10
0915	8.12	10.95	0.890	0.68	49-6	-139	310	18.65
					<u>-</u>			
	_							
Tolerance:	0.1		3%	10%	10%	+ or - 10		-

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

ATTACHMENT 2 FIELD NOTES

1 Wx: 49	5-65°F, far	tly electly, colu
LOCIO	TIME	DTW
5R-108	0959	12,10
5R-104	100i	10.86
5R-003	1007	17.01
52-002	1009	12.88
52-001	1011	9.46
5R-006	1024	15.90
BRW-01	1029	12-75
5R-105	1044	13-68
SR-005	1050	15-02
5R-004	101	5.52
BRW-02	1142	12.77
SR-1061	1204	27.68
SR-1061	1212	6.81
		4 5 2 3

0730	calibrate	Horiba
	Standard	reading
PH	4.0	4.00
cond	4.49	4.49
pH cond Turb.	0.0	0.0

Location LoRoy, NY Date 4/19/19 17

Project / Client Lorf Insulators

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ATTACHMENT 3

DATA USABILITY SUMMARY REPORT

(on CD for hard copy)

DATA USABILITY SUMMARY REPORT

LAPP INSULATOR COMPANY GROUNDWATER SAMPLING LEROY, NEW YORK WORK ASSIGNMENT NO. D007622-11.2 SITE ID# 819017

Analyses Performed by:

EUROFINS TESTAMERICA AMHERST, NEW YORK AND NASHVILLE, TENNESSEE

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION

Prepared by:

URS CORPORATION
257 WEST GENESEE STREET
BUFFALO, NY 14202

JUNE 2019

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DATA DELIVERABLE COMPLETENESS2
SAMPLE RECEIPT/ PRESERVATION/HOLDING TIMES2
NON-CONFORMANCES
SAMPLE RESULTS AND REPORTING3
SUMMARY4
TABLES
(Following Text)
Validated Groundwater Sample Analytical Results
Validated Field QC Sample Analytical Results

ATTACHMENTS

Attachment A – Form 1s

Attachment B - Support Documentation

I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and the Development of Data Usability Summary Reports, May 2010. The samples were collected from the Lapp Insulator site (Site No. 819017) in support of NYSDEC Work Assignment # D007622-11.2.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION PROCEDURES

The data being evaluated is from the April 17-22, 2019 sampling of 13 groundwater samples, 1 matrix spike/matrix spike duplicate pair (MS/MSD), 1 field duplicate (FD) sample, and 4 trip blanks (TB). The analytical laboratory that performed the analyses is Eurofins TestAmerica located in Amherst, NY and Nashville, TN. The samples were analyzed for the following parameters. Not all samples were analyzed for all parameters.

Matrix	Parameter	Method
Groundwater	Target Compound List (TCL) Volatile Organic Compounds (VOC)	SW8260C
	1,4-Dioxane	SW8270D SIM
# 57 #3	Total/Dissolved Iron and Manganese	SW6010C
	Chemical Oxygen Demand (COD)	410.4
	Nitrate and Sulfate	300.0
	Biochemical Oxygen Demand (BOD ₅)	SM5210B

A limited data validation was performed following the guidelines in the following USEPA Region II document (where applicable):

Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry,
 SW-846 Method 8260B & 8260C, SOP HW-24, Rev. 4, October 2014;

- Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry,
 SW-846 Method 8270D, SOP HW-22, Rev. 5, December 2010;
- ICP-AES Data Validation, SOP HW-3a, Rev. 1, September 2016; and
- Mercury and Cyanide Data Validation, SOP HW-3c, Rev. 1, September 2016.

The limited validation included a review of: completeness of all required deliverables; holding times; quality control (QC) results [blanks, instrument tunings, calibration standards, duplicate analyses, and laboratory control sample (LCS) recoveries] to determine if the data are within the protocol-required limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and laboratory data qualifiers.

Qualifications applied to the data during the limited data validation include 'J' (estimated concentration), 'J+' (estimated concentration biased high), 'J-' (estimated concentration biased low), 'UJ' (estimated quantitation limit), and 'R' (rejected). Definitions of USEPA data qualifiers are presented at the end of this text. A summary of data qualifications is presented on Table 1. The validated analytical results are presented on Table 2 (groundwaters) and Table 3 (field QC). Copies of validated laboratory analytical summaries (Form 1s) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

III. DATA DELIVERABLE COMPLETENESS

The laboratory deliverable data packages were equivalent to NYSDEC Analytical Services Protocol (ASP) Category B (or CLP-like) requirements.

IV. SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved and under proper chain-of-custody (COC). All samples were analyzed within the required holding times (HT) with the following exceptions:

Samples BRW-01, FD-20190422 (BRW-01), BRW-02, SR-004, SR-005, SR-006, and SR-105 were analyzed for nitrate outside of the 48 hr. HT due to laboratory error. The non-detect results for nitrate in these samples have been qualified 'UJ'.

Samples FD-20190422 (BRW-01), SR-002, SR-003, SR-004, and SR-106 were analyzed for BOD₅ outside of the 48 hr. HT due to a laboratory error. The results for BOD₅ in these samples have been qualified 'UJ'.

V. NON-CONFORMANCES

• Instrument Calibration

The relative response factor (RRF) for VOCs 2-butanone, 2-hexanone, 4-methyl-2-pentanone, acetone, and/or methyl acetate were below the QC limit of 0.100 in the initial and continuing calibrations (ICAL/CCAL). The non-detect results for the associated samples listed on Table 1 have been qualified 'R', while the detected results were qualified 'J'.

The percent difference (%D) between the ICAL average RRF and the RRFs in the CCAL standard were greater than 20% for VOC 1,2,4-trichlorobenzene, and showed a decreasing response. The results for the associated samples listed on Table 1 have been qualified 'UJ'.

The percent recoveries (%Rs) of manganese (Mn) in the metals continuing calibration verifications (CCVs) were greater than the upper QC limit (i.e., >110%, but \leq 125%) in some of the analytical sequences. The detected results for Mn in the associated samples listed on Table 1 have been qualified 'J+'.

The %Rs of Mn and iron (Fe) in the metals CCVs were less than the lower QC limit (i.e., >75%, but< 89%) in some of the analytical sequences. The detected results for these metals in the associated samples listed on Table 1 have been qualified 'J-'.

• Laboratory Control Sample (LCS)

The %R of the BOD₅ LCS was below QC limits. The associated samples listed on Table 1 have been qualified 'UJ'.

• Field Duplicates

A FD was collected at the sample location BRW-01. The FD relative percent differences (RPD) exhibited good analytical precision (e.g., <50%).

VI. SAMPLE RESULTS AND REPORTING

All quantitation/detection limits were reported in accordance with method requirements and were adjusted for sample volume and dilution factors. Detected results below the quantitation limits were qualified 'J' by the laboratory.

Several samples were analyzed for VOCs utilizing dilutions due to elevated levels of target compounds. The detection limits reported for the non-detect compounds represent the lowest achievable at the dilution factor used during the analysis.

VII. **SUMMARY**

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'R' (rejected) are not useable. Those results qualified 'UJ' (estimated quantitation limit), 'J' (estimated concentration), 'J+' (estimated concentration biased high), and 'J-' (estimated concentration biased low) during the data review are considered conditionally usable. All other sample results are usable as reported. URS does not recommend the re-collection of any samples at this time.

Prepared By: Ann Marie Kropovitch, Chemist Date: 6/27/19

Reviewed By: Peter R. Fairbanks, Senior Chemist P Date: 6/27/19

DEFINITIONS OF USEPA DATA QUALIFIERS

- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- (J+) The result is an estimated quantity. The associated numerical value is biased high.
- (J-) The result is an estimated quantity. The associated numerical value is biased low.
- UJ The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.
- D The sample result was reported from a secondary dilution analysis.
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified' and the associated numerical value represents its approximate concentration.

TABLE 1 SUMMARY OF DATA QUALIFICATIONS LAPP INSULATOR COMPANY

			(4)
SAMPLE ID	FRACTION	ANALYTICAL DEVIATION	QUALIFICATION
BRW-01, FD-20190422 (BRW-01), BRW-02, SR-004, SR-005, SR-006, SR-101, SR-105, SR-106, TB-20190417, TB-20190419, and TB-20190422	VOC	RRF < QC limit of 0.100 in the ICAL/CCAL for 2-butanone, 2-hexanone, 4-methyl-2-pentanone, acetone, and methyl acetate.	
SR-001, SR-002, SR-108, and TB-20190418	VOC	RRF < QC limit of 0.100 in the ICAL/CCAL for 2-butanone, 2-hexanone, and acetone.	Qualify non-detect results 'R'.
SR-003 and SR-104	VOC	RRF < QC limit of 0.100 in the ICAL/CCAL for 2-butanone and acetone.	Qualify detected results 'J' and non-detect results 'R'.
SR-105 and TB-20190422	VOC	%D between the ICAL average RRF and the CCAL RRF >20% for 1,2,4-trichlorobenzene.	Qualify non-detect results 'UJ'.
BRW-01, FD-20190422 (BRW- 01), BRW-02, SR-004, and SR- 005, SR-006, and SR-105	Metals	CCV %R between 110%-125% for Mn (Dissolved).	Qualify detected results 'J+'.
BRW-01, FD-20190422 (BRW-01), BRW-02, SR-001, SR-002, SR-003, SR-004, and SR-005, SR-006, SR-104, SR-105, and SR-108	Metals	CCV %R between 110%-125% for Mn (Total).	Qualify detected results 'J+'.
SR-101 and SR-106	Metals	CCV %R between 75%-89% for Mn (Dissolved).	Qualify detected results 'J-'.
SR-101 and SR-106	Metals	CCV %R between 75%-89% for Fe (Total).	Qualify detected results 'J-'.
SR-001, SR-002, SR-003, SR- 104, and SR-108	Metals	CCV %R between 75%-89% for Fe (Dissolved).	Qualify detected results 'J-'.
FD-20190422 (BRW-01), SR- 002, SR-003, SR-004, and SR- 106	Wet Chemistry	BOD ₅ analyzed outside of the 48 hr. holding time.	Qualify non-detect results 'UJ'.
BRW-01, FD-20190422 (BRW-01), BRW-02, SR-004, SR-005, SR-006, and SR-105	Wet Chemistry	Nitrate analyzed outside of the 48 hr. holding time.	Qualify non-detect results 'UJ'.
BRW-01, SR-105, and SR-006	Wet Chemistry	LCS %R < QC limit for BOD₅.	Qualify detected results 'J' and non-detect results 'UJ'.

Location ID		BRW-01	BRW-01	BRW-02	SR-001	SR-002	
Sample ID		BRW-01	FD-20190422	BRW-02	SR-001	SR-002	
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Depth Interval (ft)		•	•	-	-		
Date Sampled		04/22/19	04/22/19	04/19/19	04/18/19	04/18/19	
Parameter	Units		Field Duplicate (1-1)				
Volatile Organic Compounds			-				
1,1,1-Trichloroethane	UG/L	100	99	4,000	1.0 U	86	
1,1,2,2-Tetrachioroethane	UG/L	1.0 U	1.0 U	20 U	1.0 ປ	1.0 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
1,1-Dichloroethane	UG/L	210	200	3,700	61	97	
1,1-Dichloroethene	UG/L	54	51	170	0.62 J	20	
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
1,2-Dibromo-3-chloropropane	UG/L	10 U	10 U	200 U	10 U	10 U	
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
1,2-Dichloroethene (cis)	UG/L	52	50	20 U	27	1,800 D	
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	20 U	. 29	26	
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
2-Hexanone	UG/L	R	R	- R	R	R	
4-Methyl-2-pentanone	UG/L	R	R	R ·	10 U	10 U	
Acetone	UG/L	R	R	R	R	R	
Benzene	UG/L	0.85 J	0.78 J	20 U	1.0 U	1.0 U	
Bromodichloromethane	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	

Flags assigned during chemistry validation are shown.

Location ID		BRW-01	BRW-01	BRW-02	SR-001	SR-002	
Sample ID		BRW-01	FD-20190422	BRW-02	SR-001	SR-002	
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Depth Interval (ft)		-	-	•	-	-	
Date Sampled		04/22/19	04/22/19 Field Duplicate (1-1)	04/19/19	04/18/19	04/18/19	
Parameter	Units		Troid Supiloate (1-1)			<	
Volatile Organic Compounds							
Bromoform	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
Bromomethane	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
Carbon disulfide	UG/L	1.0 U	1.0 U	20 U	1.0 U	0.48 J	
Carbon tetrachloride	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
Chlorobenzene	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
Chloroethane	UG/L	0.51 J	0.57 J	7.9 J	1.0 U	1.0 U	
Chloroform	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
Chloromethane	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
Cyclohexane	UG/L	4.8 J	4.5 J	20 J	5.0 U	5.0 U	
Dibromochloromethane	UG/L	1.0 U	1.0 U	20 U	1.0 U	_ 1.0 U	
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
Ethylbenzene	UG/L	0.39 J	0.41 J	20 U	1.0 U	_ 1.0 U	
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
Methyl acetate	UG/L	R	R	Я	10 U	10 U	
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R	R	
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
Methylcyclohexane	UG/L	8.2	7.8	22 J	0.68 J	5.0 U	
Methylene chloride	UG/L	5.0 U	5.0 U	100 U	5.0 U	5.0 U	
Styrene	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
Tetrachloroethene	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	
Toluene	UG/L	1.7	1.7	8.0 J	1.0 U	1.0 U	
Trichloroethene	UG/L	76	75	14 J	6.4	4,300 D	
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	20 U	1.0 U	1.0 U	

Flags assigned during chemistry validation are shown.

Location ID Sample ID Matrix Depth Interval (ft) Date Sampled		BRW-01 BRW-01 Groundwater - 04/22/19	BRW-01	BRW-02 BRW-02 Groundwater - 04/19/19	SR-001 SR-001 Groundwater - 04/18/19	SR-002 SR-002 Groundwater - 04/18/19							
			FD-20190422 Groundwater - 04/22/19										
							Parameter	Units		Field Duplicate (1-1)			33
							Volatile Organic Compounds		10		•		
							Vinyl chloride	UG/L	2.1	2.0	20 U	3.9	2.8
Xylene (total)	UG/L	2.4 J	2.4 J	13 J	3.0 U	3.0 U							
Semivolatile Organic Compounds													
1,4-Dioxane	UG/L	110	120	22	7.5	0.60							
Metals													
lron	UG/L	13,500	14,500	42,000	9,800	17,200							
Manganese	UG/L	660 J+	660 J+	550 J+	39 J+	140 J+							
Dissolved Metals													
lron	UG/L	6,500	6,100	14,500	69 J-	990 J-							
Manganese	UG/L	740 J+	720 J+	440 J+	13	71							
Miscellaneous Parameters													
Biochemical Oxygen Demand (BOD)	MG/L	2.0 UJ	30.0 UJ	2.0 U	2.0 U	6.0 UJ							
Chemical Oxygen Demand (COD)	MG/L	24.8	31.1	35.4	31.1	7.6 J							
Nitrate-Nitrogen	MG/L	0.050 UJ	0.050 UJ	0.050 UJ	0.10 U	0.050 U							
Sulfate (as SO4)	MG/L	32.3	31.8	5.2	2.4 J	17.7							

Flags assigned during chemistry validation are shown.

Location ID		SR-003	SR-004	SR-005	SR-006	SR-101							
Sample ID Matrix Depth Interval (ft) Date Sampled		SR-003	SR-004	SR-005	SR-006	SR-101							
		Groundwater - 04/18/19	Groundwater - 04/19/19	Groundwater - 04/19/19	Groundwater - 04/22/19	Groundwater - 04/17/19							
							Parameter	Units			i i		#:
							Volatile Organic Compounds		· - · · · · · · · · · · · · · · · · · ·				
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1,200	2,200	1.0 U							
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	17,000	7,100	1.0 U							
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	500	360	1.0 U							
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
1,2-Dibromo-3-chloropropane	UG/L	10 U	10 U	1,000 U	500 U	10 U							
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	230	550	1.0 U							
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
2-Hexanone	UG/L	10 U	R	R	R	R							
4-Methyl-2-pentanone	UG/L	10 U	R	R	R	R							
Acetone	UG/L	24 J	R	R	R	R							
Benzene	UG/L	12	6.8	83 J	33 J	1.0 U							
Bromodichloromethane	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							

Flags assigned during chemistry validation are shown.

Location ID		SR-003 SR-003 Groundwater - 04/18/19	SR-004 SR-004 Groundwater - 04/19/19	SR-005 SR-005 Groundwater - 04/19/19	SR-006 SR-006 Groundwater - 04/22/19	SR-101 SR-101 Groundwater - 04/17/19							
Sample ID Matrix Depth Interval (ft) Date Sampled													
							Parameter	Units	=				
							Volatile Organic Compounds						2
							Bromoform	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
Carbon disulfide	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
Carbon tetrachioride	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
Chlorobenzene	UG/L	1.0 U	1.0 U	100 U 🗵	50 U	= 1.0 U							
Chloroethane	UG/L	1.0 U	1.0 U	78 J	50 U	1.0 U							
Chloroform	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
Chloromethane	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
Cyclohexane	UG/L	54	6.9	72 J	250 U	5.0 U							
Dibromochloromethane	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
Ethylbenzene	UG/L	3.3	1.5	100 U	50 U	1.0 U							
Isopropylbenzene (Cumene)	UG/L	0.62 J	1.0 U	100 U	50 U	1.0 U							
Methyl acetate	UG/L	10 U	R	R =	R	R							
Methyl ethyl ketone (2-Butanone)	UG/L	a R	R	R	R	R							
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
Methylcyclohexane	UG/L	40	3.3 J	38 J	30 J	0.93 J							
Methylene chloride	UG/L	5.0 U	5.0 U	500 U	250 U	5.0 U							
Styrene	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
Tetrachloroethene	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							
Toluene	UG/L	18	2.4	96 J	43 J	1.0 U							
Trichloroethene	UG/L	1.0 U	1.0 U	1,900	680	1.0 U							
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U							

Flags assigned during chemistry validation are shown.

Location ID		SR-003	SR-004	SR-005	SR-006	SR-101
Sample ID		SR-003	SR-004	SR-005	SR-006	SR-101
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	•	•	-
Date Sampled		04/18/19	04/19/19	04/19/19	04/22/19	04/17/19
Parameter	Units					
Volatile Organic Compounds		ű =		9		
Vinyl chloride	UG/L	1.0 U	1.0 U	100 U	50 U	1.0 U
Xylene (total)	UG/L	21	5.4	300 U	150 U	3.0 U
Semivolatile Organic Compounds					2	
1,4-Dioxane	UG/L	1.3	0.57	1,200	290	3.3
Metals				-		
ron	UG/L	86,400	48,900	140,000	16,000	4,100 J-
Manganese	UG/L	1,100 J+	620 J+	1,700 J+	280 J+	61
Dissolved Metals					·	
ron	UG/L	3,300 J-	190	129,000	3,500	110
Manganese	UG/L	160	48 J+	1,500 J+	170 J+	28 J-
Miscellaneous Parameters		=	×			
Biochemical Oxygen Demand (BOD)	MG/L	3.0 UJ	2.0 UJ	9.3	2.0 UJ	2.0 U
Chemical Oxygen Demand (COD)	MG/L	43.6	50.2	80.6	39.3	29.4
Nitrate-Nitrogen	MG/L	0.25 U	0.050 UJ	0.050 UJ	0.050 UJ	- 0.10 U
Sulfate (as SO4)	MG/L	106	23.3	31.4	31.2	118

Flags assigned during chemistry validation are shown.

Location ID	··· ·	SR-104	SR-105	SR-106	SR-108	
Sample ID		SR-104	SR-105	SR-106	SR-108	
Matrix	Matrix		Groundwater	Groundwater	Groundwater	
Depth Interval (ft)			-	-	-	
Date Sampled		04/18/19	04/22/19	04/17/19	04/18/19	
Parameter	Units			=	80	
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	45	200,000	1,100	12	
1,1,2,2-Tetrachloroethane	UG/L	10 U	500 U	20 U	1.0 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	10 U	500 U	20 U	1.0 U	
1,1,2-Trichloroethane	UG/L	10 U	500 U	20 U	1.0 U	
1,1-Dichloroethane	UG/L	230	75,000	3,300	43	
1,1-Dichloroethene	UG/L	46	3,100	59	9.5	
1,2,4-Trichlorobenzene	UG/L	10 U	500 UJ	20 U	1.0 U	
1,2-Dibromo-3-chloropropane	UG/L	100 U	5,000 U	200 U	10 U	
1,2-Dibromoethane (Ethylene dibromide)	UG/L	10 U	500 U	20 U	1.0 U	
1,2-Dichlorobenzene	UG/L	10 U	500 U	20 U	1.0 U	
1,2-Dichloroethane	UG/L	10 U	500 U	20 U	1.0 U	
1,2-Dichloroethene (cis)	UG/L	1,800	7,600	250	480 D	
1,2-Dichloroethene (trans)	UG/L	9.0 J	500 U	8.8 J	17	
1,2-Dichloropropane	UG/L	10 U	500 U	20 U	1.0 U	
1,3-Dichlorobenzene	UG/L	10 U	500 U	20 U	1.0 U	
1,3-Dichloropropene (cis)	UG/L	10 U	500 U	20 U	1.0 U	
1,3-Dichloropropene (trans)	UG/L	10 U	500 U	20 U	1.0 U	
1,4-Dichlorobenzene	= UG/L	10 U	500 U	20 U	1.0 U	
2-Hexanone	UG/L	100 U	R	R	R	
4-Methyl-2-pentanone	UG/L	100 U	R	R	10 U	
Acetone	UG/L	R	19,000 J	R	R	
Benzene	UG/L	4.9 J	500 U	20 U	2.8	
Bromodichloromethane	UG/L	10 U	500 U	20 U	1.0 U	

Flags assigned during chemistry validation are shown.

Location ID		SR-104	SR-105	SR-106	SR-108
Sample ID		SR-104	SR-105	SR-106	SR-108
Matrix	1	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		•	-	• _	•
Date Sampled		04/18/19	04/22/19	04/17/19	04/18/19
Parameter	Units				
Volatile Organic Compounds		" " " " " " " " " " " " " " " " " " " "			
Bromoform	UG/L	10 U	500 U	20 U	1.0 U
Bromomethane	UG/L	10 U	500 U	20 U	1.0 U
Carbon disulfide	UG/L	10 U	500 U	20 U	1.0 U
Carbon tetrachloride	UG/L	10 U	500 U	20 U	1.0 U
Chlorobenzene	UG/L	10 U	500 U	20 U	1.0 U
Chloroethane	UG/L	10 U	500 U	91	1.0 U
Chloroform	UG/L	10 U	500 U	20 U	1.0 U
Chloromethane	UG/L	10 U	500 U	20 U	1.0 U
Cyclohexane	UG/L	50 U	2,500 U	100 U	6.0
Dibromochloromethane	UG/L	10 U	500 U	20 U	1.0 U
Dichlorodifluoromethane	UG/L	10 U	500 U	20 U	1.0 U
Ethylbenzene	UG/L	10 U	500 U	20 U	0.34 J
Isopropylbenzene (Cumene)	UG/L	10 U	500 U	20 U	1.0 U
Methyl acetate	UG/L	100 U	R	R	10 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R
Methyl tert-butyl ether	UG/L	10 U	500 U	20 U	1.0 U
Methylcyclohexane	UG/L	50 U	2,500 U	100 U	8.4
Methylene chloride	UG/L	50 U	2,500 U	100 U	5.0 U
Styrene	UG/L	10 U	500 U	20 U	1.0 U
Tetrachloroethene	UG/L	10	500 U	20 U	0.35 J
Toluene	UG/L	10 U	500 U	20 U	1.4
Trichloroethene	UG/L	2,700 D	92,000	58	530 D
Trichlorofluoromethane	UG/L	10 U	500 U	20 U	1.0 U

Flags assigned during chemistry validation are shown.

Location ID Sample ID		SR-104	SR-105	SR-106	SR-108	
		SR-104	SR-105	SR-106	SR-108	
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	
Depth Interval (ft)		-	-	-	-	
Date Sampled		04/18/19	04/22/19	04/17/19	04/18/19	
Parameter	Units	F- 40		=	i	
Volatile Organic Compounds					-	
Vinyl chloride	UG/L	33	500 U	100	47	
Kylene (total)	UG/L	30 U	1,500 U	60 U	3.0 U	
Semivolatile Organic Compounds						
1,4-Dioxane	UG/L	12	3,100	240	1.7	
Metals	×					
ron	UG/L	940	14,100	2,900 J-	28,500	
Manganese	UG/L	61 J+	310 J+	49	160 J+	
Dissolved Metals						
ron	UG/L	380 J-	11,100	690	1,300 J-	
Manganese	UG/L	51	270 J+	41 J-	58	
Miscellaneous Parameters					ï	
liochemical Oxygen Demand (BOD)	MG/L	2.0 U	57.8 J	2.0 UJ	3.0 U	
Chemical Oxygen Demand (COD)	MG/L	11.3	127	119	21.2	
litrate-Nitrogen	MG/L	0.10 U	0.050 UJ	0.79	0.10 U	
sulfate (as SO4)	MG/L	36.4	11.8	142	11.8	

Flags assigned during chemistry validation are shown.

TABLE 3 VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS LAPP INSULATOR COMPANY

Location ID Sample ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	
		TB-20190417	TB-20190418	TB-20190419	TB-20190422	
Matrix		Water Quality	Water Quality	Water Quality	Water Quality	
Depth Interval (ft)		-	-	-	-	
Date Sampled		04/17/19	04/18/19	04/19/19	04/22/19	
Parameter	Units	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2,2-Tetrachloroethane	UG/L	1.0 U ,	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	
1,2-Dibromo-3-chloropropane	UG/L	10 U	10 U	10 U	. 10 U	
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
,3-Dichlorobenzene	UG/L	. 1.0 ປ	1.0 U	1.0 U	1.0 U	
,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
-Hexanone	UG/L	R	R	R	R	
-Methyl-2-pentanone	UG/L	R	10 U	R	R	
cetone	UG/L	R	R	9.3 J	R	
enzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
romodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	

Flags assigned during chemistry validation are shown.

TABLE 3 VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS LAPP INSULATOR COMPANY

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID	•	TB-20190417	TB-20190418	TB-20190419	TB-20190422
Matrix		Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-		-	-
Date Sampled		04/17/19	04/18/19	04/19/19	04/22/19
Parameter	Units	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds					
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 U	- 1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U a
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
sopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	R	10 U	R	· R
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
etrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
oluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
richloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
richlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

TABLE 3 VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS LAPP INSULATOR COMPANY

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	
Sample ID		TB-20190417	TB-20190418	TB-20190419	TB-20190422	
Matrix		Water Quality	Water Quality	Water Quality	Water Quality	
Depth Interval (ft)		•	-	•	-	
Date Sampled		04/17/19	04/18/19	04/19/19	04/22/19	
Parameter	Units	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	
Volatile Organic Compounds						
/inyl chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	
Kylene (total)	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	

Flags assigned during chemistry validation are shown.

ATTACHMENT A

FORM 1s

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152320-1 SDG No.: Client Sample ID: BRW-01 Lab Sample ID: 480-152320-3 Matrix: Water Lab File ID: 043019-18.D Analysis Method: 8260C Date Collected: 04/22/2019 11:35 Sample wt/vol: 10(mL) Date Analyzed: 04/30/2019 17:21 Dilution Factor: 1 Soil Aliquot Vol: Soil Extract Vol.: GC Column: ZB-624 ID: 0.18 (mm) Level: (low/med) Low % Moisture: Analysis Batch No.: 591468 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	100		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND	*	1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	210		1.0	0.24
75-35-4	1,1-Dichloroethene	54		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND	*/	1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	NB	2	. 50	2.6
591-78-6	2-Hexanone	ND	R	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	NĐ	R	10	0.81
67-64-1	Acetone	,NB	R	25	2.7
71-43-2	Benzene	0.85	J	1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND		1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	0.51	J	1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	52		1.0	0.21
110-82-7	Cyclohexane	4.8	J	5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND	F1	1.0	0.17
100-41-4	Ethylbenzene	0.39	J	1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND	0.	10	0.58

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152320-1 SDG No.: Client Sample ID: BRW-01 Lab Sample ID: 480-152320-3 Lab File ID: 043019-18.D Matrix: Water Analysis Method: 8260C Date Collected: 04/22/2019 11:35 Date Analyzed: 04/30/2019 17:21 Sample wt/vol: 10(mL) Soil Aliquot Vol: Dilution Factor: 1 Soil Extract Vol.: ____ ID: 0.18 (mm) GC Column: ZB-624 Level: (low/med) Low % Moisture: Units: ug/L Analysis Batch No.: 591468

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	8.2		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	1.7		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	76	,	1.0	0.20
75-69-4	Trichlorofluoromethane	ND	F.I.	1.0	0.21
75-01-4	Vinyl chloride	2.1		1.0	0.18
1330-20-7	Xylenes, Total	2.4	J	3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		70-130
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	113		70-130





Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152320-1 SDG No.: Lab Sample ID: 480-152320-4 Client Sample ID: FD-20190422 Lab File ID: 043019-19.D Matrix: Water Date Collected: 04/22/2019 00:00 Analysis Method: 8260C Date Analyzed: 04/30/2019 17:47 Sample wt/vol: 10(mL) Dilution Factor: 1 Soil Aliquot Vol: GC Column: ZB-624 ID: 0.18 (mm) Soil Extract Vol.: Level: (low/med) Low % Moisture: Units: ug/L Analysis Batch No.: 591468

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	99		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND	/k	1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	200		1.0	0.24
75-35-4	1,1-Dichloroethene	51		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND	y	1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND	R	50	2.6
591-78-6	2-Hexanone	ND	R	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	R	10	0.81
67-64-1	Acetone	ND	(2	25	2.7
71-43-2	Benzene	0.78	J	1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND		1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	0.57	J	1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	50		1.0	0.21
110-82-7	Cyclohexane	4.5	J	5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND		1.0	0.17
100-41-4	Ethylbenzene	0.41	J	1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND	0	10	0.58

05/22/2019



Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152320-1				
SDG No.:					
Client Sample ID: FD-20190422	Lab Sample ID: 480-152320-4				
Matrix: Water	Lab File ID: 043019-19.D				
Analysis Method: 8260C	Date Collected: 04/22/2019 00:00				
Sample wt/vol: 10(mL)	Date Analyzed: 04/30/2019 17:47				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18 (mm)				
% Moisture:	Level: (low/med) Low				
Analysis Batch No.: 591468	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND	1	1.0	0.17
108-87-2	Methylcyclohexane	7.8		5.0	0.090
75-09-2	Methylene Chloride	ND	12	5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	1.7		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	75		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	2.0		1.0	0.18
1330-20-7	Xylenes, Total	2.4	J	3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		70-130
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	115		70-130

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152241-1

SDG No.:

Client Sample ID: BRW-02 Lab Sample ID: 480-152241-2

Matrix: Water Lab File ID: 0426-13.D

Analysis Method: 8260C Date Collected: 04/19/2019 10:35

Sample wt/vol: 10 (mL) Date Analyzed: 04/26/2019 20:32

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: ZB-624 ID: 0.18 (mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 590877 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	4000		20	3.8
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	3.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND		20	3.0
79-00-5	1,1,2-Trichloroethane	ND		20	3.8
75-34-3	1,1-Dichloroethane	3700		20	4.8
75-35-4	1,1-Dichloroethene	170		20	5.0
120-82-1	1,2,4-Trichlorobenzene	ND		20	4.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		200	19
95-50-1	1,2-Dichlorobenzene	ND		20	3.8
107-06-2	1,2-Dichloroethane	ND		20	4.0
78-87-5	1,2-Dichloropropane	ND		20	5.0
541-73-1	1,3-Dichlorobenzene	ND		20	3.6
106-46-7	1,4-Dichlorobenzene	ND		20	3.4
78-93-3	2-Butanone (MEK)	NÐ	2	1000	53
591-78-6	2-Hexanone	ND	0	200	26
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0	200	16
67-64-1	Acetone	ND	0	500	53
71-43-2	Benzene	ND		20	4.0
75-25-2	Bromoform	ND		20	5.8
74-83-9	Bromomethane	ND		20	7.0
75-15-0	Carbon disulfide	ND		20	4.4
56-23-5	Carbon tetrachloride	ND		20	3.6
108-90-7	Chlorobenzene	ND		20	3.6
124-48-1	Dibromochloromethane	ND		20	5.0
75-00-3	Chloroethane	7.9	J	20	7.2
67-66-3	Chloroform	ND		20	4.6
74-87-3	Chloromethane	ND		20	7.2
156-59-2	cis-1,2-Dichloroethene	ND		20	4.2
110-82-7	Cyclohexane	20	J	100	2.6
75-27-4	Bromodichloromethane	ND		20	3.4
75-71-8	Dichlorodifluoromethane	ND		20	3.4
100-41-4	Ethylbenzene	ND		20	3.8
106-93-4	1,2-Dibromoethane	ND		20	4.2
98-82-8	Isopropylbenzene	ND		20	6.6
79-20-9	Methyl acetate	ND	_	200	12

FORM I 8260C

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 Lab Name: Eurofins TestAmerica, Nashville
 Job No.: 480-152241-1

 SDG No.:
 Lab Sample ID: 480-152241-2

 Client Sample ID: BRW-02
 Lab Sample ID: 480-152241-2

 Matrix: Water
 Lab File ID: 0426-13.D

 Analysis Method: 8260C
 Date Collected: 04/19/2019 10:35

 Sample wt/vol: 10 (mL)
 Date Analyzed: 04/26/2019 20:32

 Soil Aliquot Vol:
 Dilution Factor: 20

 Soil Extract Vol.:
 GC Column: ZB-624 ID: 0.18 (mm)

 % Moisture:
 Level: (low/med) Low

 Analysis Batch No.: 590877
 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		20	3.4
108-87-2	Methylcyclohexane	22	J	100	1.8
75-09-2	Methylene Chloride	ND		100	20
127-18-4	Tetrachloroethene	ND		20	2.8
108-88-3	Toluene	8.0	J	20	3.4
156-60-5	trans-1,2-Dichloroethene	ND		20	4.6
10061-02-6	trans-1,3-Dichloropropene	ND		20	3.4
79-01-6	Trichloroethene	14	J	20	4.0
75-69-4	Trichlorofluoromethane	ND		20	4.2
75-01-4	Vinyl chloride	ND		20	3.6
1330-20-7	Xylenes, Total	13	J	60	12
10061-01-5	cis-1,3-Dichloropropene	ND		20	3.4
100-42-5	Styrene	ND		20	5.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-130
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1 SDG No.: Lab Sample ID: 480-152143-3 Client Sample ID: SR-001 Lab File ID: 04251914.D Matrix: Water Date Collected: 04/18/2019 12:35 Analysis Method: 8260C Date Analyzed: 04/25/2019 19:36 Sample wt/vol: 5(mL) Soil Aliquot Vol: Dilution Factor: 1 ID: 0.18 (mm) GC Column: DB-624 Soil Extract Vol.: Level: (low/med) Low % Moisture:

Units: ug/L

COMPOUND NAME RESULT RLMDL CAS NO. 1.0 0.19 ND 71-55-6 1,1,1-Trichloroethane 1.0 0.19 ND 79-34-5 1,1,2,2-Tetrachloroethane 1.0 0.15 76-13-1 1,1,2-Trichloro-1,2,2-trifluoroethan ND ND 1.0 0.19 79-00-5 1,1,2-Trichloroethane 1.0 0.24 61 75-34-3 1,1-Dichloroethane 0.25 0.62 1.0 75-35-4 1,1-Dichloroethene 1,2,4-Trichlorobenzene ND 1.0 0.20 120-82-1 0.94 ND 10 1,2-Dibromo-3-Chloropropane 96-12-8 0.19 1.0 ND 95-50-1 1,2-Dichlorobenzene 0.20 ND 1.0 107-06-2 1,2-Dichloroethane 0.25 ND 1.0 78-87-5 1,2-Dichloropropane 1.0 0.18 541-73-1 1,3-Dichlorobenzene ND 106-46-7 1,4-Dichlorobenzene ND 1.0 0.17 2.6 78-93-3 2-Butanone (MEK) ND 10 1.3 591-78-6 2-Hexanone ND 108-10-1 4-Methyl-2-pentanone (MIBK) ND 10 0.81 25 2.7 67-64-1 Acetone ND 0.20 ND 1.0 71-43-2 Benzene 0.29 75-25-2 Bromoform ND 1.0 74-83-9 Bromomethane ND 1.0 0.35 ND 1.0 0.22 75-15-0 Carbon disulfide 1.0 0.18 56-23-5 Carbon tetrachloride ND 1.0 0.18 108-90-7 Chlorobenzene Dibromochloromethane 1.0 0.25 ND 124-48-1 1.0 0.36 75-00-3 Chloroethane ND ND 1.0 0.23 67-66-3 Chloroform 1.0 0.36 Chloromethane ND 74-87-3 156-59-2 cis-1,2-Dichloroethene 27 1.0 0.21 5.0 0.13 110-82-7 Cyclohexane 1.0 0.17 Bromodichloromethane ND 75-27-4 0.17 75-71-8 Dichlorodifluoromethane ND 1.0 1.0 0.19 100-41-4 Ethylbenzene ND 1.0 0.21 ND 106-93-4 1,2-Dibromoethane 0.33 98-82-8 Isopropylbenzene ND 1.0 0.58 79-20-9 Methyl acetate

Analysis Batch No.: 590455

 Lab Name: Eurofins TestAmerica, Nashville
 Job No.: 480-152070-1

 SDG No.:
 Lab Sample ID: 480-152143-3

 Matrix: Water
 Lab File ID: 04251914.D

 Analysis Method: 8260C
 Date Collected: 04/18/2019 12:35

 Sample wt/vol: 5(mL)
 Date Analyzed: 04/25/2019 19:36

 Soil Aliquot Vol:
 Dilution Factor: 1

 Soil Extract Vol.:
 GC Column: DB-624 ID: 0.18 (mm)

 % Moisture:
 Level: (low/med) Low

 Analysis Batch No.: 590455
 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	0.68	J	5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND	750	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	29		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	6.4		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	3.9		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1			
SDG No.:				
Client Sample ID: SR-002	Lab Sample ID: 480-152143-4			
Matrix: Water	Lab File ID: 04251916.D			
Analysis Method: 8260C	Date Collected: 04/18/2019 14:15			
Sample wt/vol: 5(mL)	Date Analyzed: 04/25/2019 20:29			
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: DB-624 ID: 0.18 (mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No.: 590455	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	86		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	97		1.0	0.24
75-35-4	1,1-Dichloroethene	20		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND	2	50	2.6
591-78-6	2-Hexanone	ND	12	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	CHA	2	25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND	,	1.0	0.29
74-83-9	Bromomethane	ND	J.	1.0	0.35
75-15-0	Carbon disulfide	0.48	J	1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND		1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17

FORM I 8260C

05/17/2019

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1				
SDG No.:					
Client Sample ID: SR-002	Lab Sample ID: 480-152143-4				
Matrix: Water	Lab File ID: 04251916.D				
Analysis Method: 8260C	Date Collected: 04/18/2019 14:15				
Sample wt/vol: 5(mL)	Date Analyzed: 04/25/2019 20:29				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: DB-624 ID: 0.18 (mm)				
% Moisture:	Level: (low/med) Low				
Analysis Batch No.: 590455	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	26		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	2.8		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	106		70-130
1868-53-7	Dibromofluoromethane (Surr)	111		70-130

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1 SDG No.: Client Sample ID: SR-002 Lab Sample ID: 480-152143-4 Lab File ID: 04261912.D Matrix: Water Analysis Method: 8260C Date Collected: 04/18/2019 14:15 Date Analyzed: 04/26/2019 18:01 Sample wt/vol: 5(mL) Soil Aliquot Vol: Dilution Factor: 25 GC Column: DB-624 ID: 0.18 (mm) Soil Extract Vol.: Level: (low/med) Low % Moisture: Analysis Batch No.: 590775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1800		25	5.3
79-01-6	Trichloroethene	4300		25	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1				
SDG No.:					
Client Sample ID: SR-003	Lab Sample ID: 480-152143-5				
Matrix: Water	Lab File ID: 04251947.D				
Analysis Method: 8260C	Date Collected: 04/18/2019 15:35				
Sample wt/vol: 5(mL)	Date Analyzed: 04/26/2019 11:18				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: RTX-624 ID: 0.18 (mm)				
% Moisture:	Level: (low/med) Low				
Analysis Batch No.: 590664	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q .	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND	1	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	NB	2	50	2.6
591-78-6	2-Hexanone	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	24	J	25	2.7
71-43-2	Benzene	12		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND		1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	54		5.0	0.13
75-27-4	Bromodichloromethane	ND	j	1.0	0.17
75-71-8	Dichlorodifluoromethane	ND	y	1.0	0.17
100-41-4	Ethylbenzene	3.3		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	0.62	J	1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

05/17/2019

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1		
SDG No.:			
Client Sample ID: SR-003	Lab Sample ID: 480-152143-5		
Matrix: Water	Lab File ID: 04251947.D		
Analysis Method: 8260C	Date Collected: 04/18/2019 15:35		
Sample wt/vol: 5(mL)	Date Analyzed: 04/26/2019 11:18		
Soil Aliquot Vol:	Dilution Factor: 1		
Soil Extract Vol.:	GC Column: RTX-624 ID: 0.18(mm)		
% Moisture:	Level: (low/med) Low		
Analysis Batch No.: 590664	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	40	<u> </u>	5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	18		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND	,	1.0	0.21
75-01-4	Vinyl chloride	ND	*	1.0	0.18
1330-20-7	Xylenes, Total	21		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-130
460-00-4	4-Bromofluorobenzene (Surr)	111		70-130
2037-26-5	Toluene-d8 (Surr)	90		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130



Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152241-1
SDG No.:	
Client Sample ID: SR-004	Lab Sample ID: 480-152241-1
Matrix: Water	Lab File ID: 0426-12.D
Analysis Method: 8260C	Date Collected: 04/19/2019 09:05
Sample wt/vol: 10(mL)	Date Analyzed: 04/26/2019 20:05
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18(mm)
% Moisture:	Level: (low/med) Low
Analysis Batch No.: 590877	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	NE	2	50	2.6
591-78-6	2-Hexanone	NÐ	2	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2	10	0.81
67-64-1	Acetone	0 195.3	7	25	2.1
71-43-2	Benzene	6.8		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND		1.0	0.35
75-15-0	Carbon disulfide	ND	- 1	1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	6.9		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND		1.0	0.17
100-41-4	Ethylbenzene	1.5	-	1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

05/23/2019

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152241-1 SDG No.: Client Sample ID: SR-004 Lab Sample ID: 480-152241-1 Lab File ID: 0426-12.D Matrix: Water Analysis Method: 8260C Date Collected: 04/19/2019 09:05 Sample wt/vol: 10(mL) Date Analyzed: 04/26/2019 20:05 Soil Aliquot Vol: Dilution Factor: 1 Soil Extract Vol.: GC Column: ZB-624 ID: 0.18 (mm) % Moisture: Level: (low/med) Low Analysis Batch No.: 590877 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	3.3	J	5.0	0.090
75-09-2	Methylene Chloride	ND	<u> </u>	5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	2.4		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND	<u> </u>	1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	5.4		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152241-1		
SDG No.:			
Client Sample ID: SR-005	Lab Sample ID: 480-152241-3		
Matrix: Water	Lab File ID: 0425-25.D		
Analysis Method: 8260C	Date Collected: 04/19/2019 12:00		
Sample wt/vol: 10(mL)	Date Analyzed: 04/26/2019 00:18		
Soil Aliquot Vol:	Dilution Factor: 100		
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18 (mm)		
% Moisture:	Level: (low/med) Low		
Analysis Ratch No · 590503	Units: ua/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1200		100	19
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		100	15
79-00-5	1,1,2-Trichloroethane	ND	İ	100	19
75-34-3	1,1-Dichloroethane	17000		100	24
75-35-4	1,1-Dichloroethene	500		100	25
120-82-1	1,2,4-Trichlorobenzene	ND		100	20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1000	94
95-50-1	1,2-Dichlorobenzene	ND		100	19
107-06-2	1,2-Dichloroethane	ND		100	20
78-87-5	1,2-Dichloropropane	ND		100	25
541-73-1	1,3-Dichlorobenzene	ND		100	18
106-46-7	1,4-Dichlorobenzene	ND		100	17
78-93-3	2-Butanone (MEK)	ND	R	5000	260
591-78-6	2-Hexanone	ND	2	1000	130
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2	1000	81
67-64-1	Acetone	1800	7 2	2500	276
71-43-2	Benzene	83	J	100	20
75-25-2	Bromoform	ND		100	29
74-83-9	Bromomethane	ND		100	35
75-15-0	Carbon disulfide	ND		100	22
56-23-5	Carbon tetrachloride	ND		100	18
108-90-7	Chlorobenzene	ND		100	18
124-48-1	Dibromochloromethane	ND		100	25
75-00-3	Chloroethane	78	J	100	36
67-66-3	Chloroform	ND		100	23
74-87-3	Chloromethane	ND		100	36
156-59-2	cis-1,2-Dichloroethene	230		100	21
110-82-7	Cyclohexane	72	J	500	13
75-27-4	Bromodichloromethane	ND		100	17
75-71-8	Dichlorodifluoromethane	ND		100	17
100-41-4	Ethylbenzene	ND		100	19
106-93-4	1,2-Dibromoethane	ND		100	21
98-82-8	Isopropylbenzene	ND		100	33
79-20-9	Methyl acetate	ND	0	1000	58

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Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152241-1				
SDG No.:					
Client Sample ID: SR-005	Lab Sample ID: 480-152241-3				
Matrix: Water	Lab File ID: 0425-25.D				
Analysis Method: 8260C	Date Collected: 04/19/2019 12:00				
Sample wt/vol: 10(mL)	Date Analyzed: 04/26/2019 00:18				
Soil Aliquot Vol:	Dilution Factor: 100				
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18 (mm)				
% Moisture:	Level: (low/med) Low				
Analysis Batch No.: 590503	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		100	17
108-87-2	Methylcyclohexane	38	J	500	9.0
75-09-2	Methylene Chloride	ND		500	100
127-18-4	Tetrachloroethene	ND		100	14
108-88-3	Toluene	96	J	100	17
156-60-5	trans-1,2-Dichloroethene	ND		100	23
10061-02-6	trans-1,3-Dichloropropene	ND		100	17
79-01-6	Trichloroethene	1900		100	20
75-69-4	Trichlorofluoromethane	ND		100	21
75-01-4	Vinyl chloride	ND		100	18
1330-20-7	Xylenes, Total	ND		300	58
10061-01-5	cis-1,3-Dichloropropene	ND	-	100	17
100-42-5	Styrene	ND		100	28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152320-1				
SDG No.:					
Client Sample ID: SR-006	Lab Sample ID: 480-152320-2				
Matrix: Water	Lab File ID: 043019-20.D				
Analysis Method: 8260C	Date Collected: 04/22/2019 10:30				
Sample wt/vol: 10(mL)	Date Analyzed: 04/30/2019 18:13				
Soil Aliquot Vol:	Dilution Factor: 50				
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18(mm)				
% Moisture:	Level: (low/med) Low				
Analysis Batch No.: 591468	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	,Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2200		50	9.5
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	9.5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND	*	50	7.5
79-00-5	1,1,2-Trichloroethane	ND		50	9.5
75-34-3	1,1-Dichloroethane	7100		50	12
75-35-4	1,1-Dichloroethene	360		50	13
120-82-1	1,2,4-Trichlorobenzene	ND		50	10
96-12-8	1,2-Dibromo-3-Chloropropane	ND		500	47
95-50-1	1,2-Dichlorobenzene	ND		50	9.5
107-06-2	1,2-Dichloroethane	ND	*	50	10
78-87-5	1,2-Dichloropropane	ND		50	13
541-73-1	1,3-Dichlorobenzene	ND		50	9.0
106-46-7	1,4-Dichlorobenzene	ND		50	8.5
78-93-3	2-Butanone (MEK)	ND	2	2500	130
591-78-6	2-Hexanone	ND	2	500	64
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2	500	41
67-64-1	Acetone	NE	2	1300	130
71-43-2	Benzene	33	J	50	10.
75-25-2	Bromoform	ND		50	15
74-83-9	Bromomethane	ND		50	18
75-15-0	Carbon disulfide	ND		50	11
56-23-5	Carbon tetrachloride	ND		50	9.0
108-90-7	Chlorobenzene	ND		50	9.0
124-48-1	Dibromochloromethane	ND		50	13
75-00-3	Chloroethane	ND		50	18
67-66-3	Chloroform	ND		50	12
74-87-3	Chloromethane	ND		50	18
156-59-2	cis-1,2-Dichloroethene	550		50	11
110-82-7	Cyclohexane	ND		250	6.5
75-27-4	Bromodichloromethane	ND		50	8.5
75-71-8	Dichlorodifluoromethane	, ND		50	8.5
100-41-4	Ethylbenzene	ND		50	9.5
106-93-4	1,2-Dibromoethane	ND		50	11
98-82-8	Isopropylbenzene	ND		50	17
79-20-9	Methyl acetate	ND	2	500	29

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Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152320-1
SDG No.:	
Client Sample ID: SR-006	Lab Sample ID: 480-152320-2
Matrix: Water	Lab File ID: 043019-20.D
Analysis Method: 8260C	Date Collected: 04/22/2019 10:30
Sample wt/vol: 10(mL)	Date Analyzed: 04/30/2019 18:13
Soil Aliquot Vol:	Dilution Factor: 50
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18(mm)
% Moisture:	Level: (low/med) Low
Analysis Batch No.: 591468	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		50	8.5
108-87-2	Methylcyclohexane	30	J	250	4.5
75-09-2	Methylene Chloride	ND		250	50
127-18-4	Tetrachloroethene	ND		50	7.0
108-88-3	Toluene	43	J	50	8.5
156-60-5	trans-1,2-Dichloroethene	ND		50	12
10061-02-6	trans-1,3-Dichloropropene	ND		50	8.5
79-01-6	Trichloroethene	680		50	10
75-69-4	Trichlorofluoromethane	ND		50	11
75-01-4	Vinyl chloride	ND		50	9.0
1330-20-7	Xylenes, Total	ND		150	29
10061-01-5	cis-1,3-Dichloropropene	ND		50	8.5
100-42-5	Styrene	ND		50	14

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		70-130
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	112		70-130

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1			
SDG No.:				
Client Sample ID: SR-101	Lab Sample ID: 480-152070-1			
Matrix: Water	Lab File ID: 042519-16.D			
Analysis Method: 8260C	Date Collected: 04/17/2019 14:45			
Sample wt/vol: 10(mL)	Date Analyzed: 04/25/2019 19:14			
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18(mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No : 500475	Units: ua/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND	, How	1.0	0.20
78-87-5	1,2-Dichloropropane	-ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND	2	50	2.6
591-78-6	2-Hexanone	ND	2	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	, NED	12	10	0.81
67-64-1	Acetone	ND	R	25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND		1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND	¥	1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND	0	10	0.58

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Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1 SDG No.: Client Sample ID: SR-101 Lab Sample ID: 480-152070-1 Matrix: Water Lab File ID: 042519-16.D Analysis Method: 8260C Date Collected: 04/17/2019 14:45 Sample wt/vol: 10(mL) Date Analyzed: 04/25/2019 19:14 Soil Aliquot Vol: ____ Dilution Factor: 1 Soil Extract Vol.: GC Column: ZB-624 ID: 0.18 (mm) % Moisture: Level: (low/med) Low Analysis Batch No.: 590475 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	0.93	J	5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND	1)	1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-130
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	95	- 1	70-130
1868-53-7	Dibromofluoromethane (Surr)	107	_	70-130

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1			
SDG No.:				
Client Sample ID: SR-104	Lab Sample ID: 480-152143-2			
Matrix: Water	Lab File ID: 04251950.D			
Analysis Method: 8260C	Date Collected: 04/18/2019 10:35			
Sample wt/vol: 5(mL)	Date Analyzed: 04/26/2019 12:37			
Soil Aliquot Vol:	Dilution Factor: 10			
Soil Extract Vol.:	GC Column: RTX-624 ID: 0.18 (mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No.: 590664	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	45		10	1.9
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	1.9
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND		10	1.5
79-00-5	1,1,2-Trichloroethane	ND		10	1.9
75-34-3	1,1-Dichloroethane	230		10	2.4
75-35-4	1,1-Dichloroethene	46		10	2.5
120-82-1	1,2,4-Trichlorobenzene	ND		10	2.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		100	9.4
95-50-1	1,2-Dichlorobenzene	ND		10	1.9
107-06-2	1,2-Dichloroethane	ND		10	2.0
78-87-5	1,2-Dichloropropane	ND		10	2.5
541-73-1	1,3-Dichlorobenzene	ND		10	1.8
106-46-7	1,4-Dichlorobenzene	ND		10	1.7
78-93-3	2-Butanone (MEK)	ND	- 2	500	26
591-78-6	2-Hexanone	ND		100	13
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100	8.1
67-64-1	Acetone	ND	2	250	27
71-43-2	Benzene	4.9	J	10	2.0
75-25-2	Bromoform	ND		10	2.9
74-83-9	Bromomethane	ND		10	3.5
75-15-0	Carbon disulfide	ND		10	2.2
56-23-5	Carbon tetrachloride	ND		10	1.8
108-90-7	Chlorobenzene	ND		10	1.8
124-48-1	Dibromochloromethane	ND		10	2.5
75-00-3	Chloroethane	ND		10	3.6
67-66-3	Chloroform	ND		10	2.3
74-87-3	Chloromethane	ND		10	3.6
156-59-2	cis-1,2-Dichloroethene	1800		10	2.1
110-82-7	Cyclohexane	ND		50	1.3
75-27-4	Bromodichloromethane	ND	/	10	1.7
75-71-8	Dichlorodifluoromethane	ND	*	10	1.7
100-41-4	Ethylbenzene	ND	-	10	1.9
106-93-4	1,2-Dibromoethane	ND		10	2.1
98-82-8	Isopropylbenzene	ND		10	3.3
79-20-9	Methyl acetate	ND		100	5.8

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Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1	
SDG No.:		
Client Sample ID: SR-104	Lab Sample ID: 480-152143-2	
Matrix: Water	Lab File ID: 04251950.D	
Analysis Method: 8260C	Date Collected: 04/18/2019 10:35	
Sample wt/vol: 5(mL)	Date Analyzed: 04/26/2019 12:37	
Soil Aliquot Vol:	Dilution Factor: 10	
Soil Extract Vol.:	GC Column: RTX-624 ID: 0.18 (mm)	
% Moisture:	Level: (low/med) Low	
Analysis Batch No.: 590664	Units: ug/L	

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		10	1.7
108-87-2	Methylcyclohexane	ND		50	0.90
75-09-2	Methylene Chloride	ND		50	10
127-18-4	Tetrachloroethene	10		10	1.4
108-88-3	Toluene	ND		10	1.7
156-60-5	trans-1,2-Dichloroethene	9.0	J	10	2.3
10061-02-6	trans-1,3-Dichloropropene	ND		10	1.7
75-69-4	Trichlorofluoromethane	ND		10	2.1
1330-20-7	Xylenes, Total	ND		30	5.8
10061-01-5	cis-1,3-Dichloropropene	ND		10	1.7
100-42-5	Styrene	ND		10	2.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
460-00-4	4-Bromofluorobenzene (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1 SDG No.: Lab Sample ID: 480-152143-2 Client Sample ID: SR-104 Lab File ID: 04301912.D Matrix: Water Date Collected: 04/18/2019 10:35 Analysis Method: 8260C Date Analyzed: 04/30/2019 15:28 Sample wt/vol: 5(mL) Dilution Factor: 10 Soil Aliquot Vol: GC Column: DB-624 ID: 0.18 (mm) Soil Extract Vol.: Level: (low/med) Low % Moisture: Analysis Batch No.: 591541 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	33		10	1.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1		
SDG No.:			
Client Sample ID: SR-104	Lab Sample ID: 480-152143-2		
Matrix: Water	Lab File ID: 04251948.D		
Analysis Method: 8260C	Date Collected: 04/18/2019 10:35		
Sample wt/vol: 5(mL)	Date Analyzed: 04/26/2019 11:44		
Soil Aliquot Vol:	Dilution Factor: 100		
Soil Extract Vol.:	GC Column: RTX-624 ID: 0.18 (mm)		
% Moisture:	Level: (low/med) Low		
Analysis Batch No.: 590664	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	2700		100	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
460-00-4	4-Bromofluorobenzene (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152320-1			
SDG No.:				
Client Sample ID: SR-105	Lab Sample ID: 480-152320-1			
Matrix: Water	Lab File ID: 042919-23.D			
Analysis Method: 8260C	Date Collected: 04/22/2019 08:50			
Sample wt/vol: 10(mL)	Date Analyzed: 04/29/2019 19:29			
Soil Aliquot Vol:	Dilution Factor: 500			
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18 (mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No : 591225	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	200000		500	95
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	95
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		500	75
79-00-5	1,1,2-Trichloroethane	ND		500	95
75-34-3	1,1-Dichloroethane	75000		500	120
75-35-4	1,1-Dichloroethene	3100		500	130
120-82-1	1,2,4-Trichlorobenzene	ND	05	500	100
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5000	470
95-50-1	1,2-Dichlorobenzene	ND		500	95
107-06-2	1,2-Dichloroethane	ND		500	100
78-87-5	1,2-Dichloropropane	ND		500	130
541-73-1	1,3-Dichlorobenzene	ND		500	90
106-46-7	1,4-Dichlorobenzene	ND		500	85
78-93-3	2-Butanone (MEK)	ND	2	25000	1300
591-78-6	2-Hexanone	ND	R	5000	640
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	R	5000	410
67-64-1	Acetone	19000	3	13000	1300
71-43-2	Benzene	ND		500	100
75-25-2	Bromoform	ND		500	150
74-83-9	Bromomethane	ND		500	180
75-15-0	Carbon disulfide	ND		500	110
56-23-5	Carbon tetrachloride	ND		500	90
108-90-7	Chlorobenzene	ND		500	90
124-48-1	Dibromochloromethane	ND		500	130
75-00-3	Chloroethane	ND		500	180
67-66-3	Chloroform	ND		500	120
74-87-3	Chloromethane	ND		500	180
156-59-2	cis-1,2-Dichloroethene	7600		500	110
110-82-7	Cyclohexane	ND		2500	65
75-27-4	Bromodichloromethane	ND		500	85
75-71-8	Dichlorodifluoromethane	ND		500	85
100-41-4	Ethylbenzene	ND		500	95
106-93-4	1,2-Dibromoethane	ND		500	110
98-82-8	Isopropylbenzene	ND		500	170
79-20-9	Methyl acetate	ND'	(2	5000	290

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Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152320-1			
SDG No.:	и			
Client Sample ID: SR-105	Lab Sample ID: 480-152320-1			
Matrix: Water	Lab File ID: 042919-23.D			
Analysis Method: 8260C	Date Collected: 04/22/2019 08:50			
Sample wt/vol: 10 (mL)	Date Analyzed: 04/29/2019 19:29			
Soil Aliquot Vol:	Dilution Factor: 500			
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18(mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No.: 591225	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND	1	500	85
108-87-2	Methylcyclohexane	ND		2500	45
75-09-2	Methylene Chloride	ND		2500	500
127-18-4	Tetrachloroethene	ND		500	70
108-88-3	Toluene	ND		500	85
156-60-5	trans-1,2-Dichloroethene	ND	-	500	120
10061-02-6	trans-1,3-Dichloropropene	ND		500	85
79-01-6	Trichloroethene	92000		500	100
75-69-4	Trichlorofluoromethane	ND		500	110
75-01-4	Vinyl chloride	ND		500	90
1330-20-7	Xylenes, Total	ND		1500	290
10061-01-5	cis-1,3-Dichloropropene	ND		500	85
100-42-5	Styrene	ND		500	140

CAS NO.	SURROGATE	%REC	Q ,	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	113		70-130

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1			
SDG No.:				
Client Sample ID: SR-106	Lab Sample ID: 480-152070-2			
Matrix: Water	Lab File ID: 042619-13.D			
Analysis Method: 8260C	Date Collected: 04/17/2019 16:20			
Sample wt/vol: 10(mL)	Date Analyzed: 04/26/2019 1	17:28		
Soil Aliquot Vol:	Dilution Factor: 20			
Soil Extract Vol.:	GC Column: ZB-624	D: 0.18 (mm)		
% Moisture:	Level: (low/med) Low			
Analysis Batch No + 500929	Units ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1100		20	3.8
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	3.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		20	3.0
79-00-5	1,1,2-Trichloroethane	ND		20	3.8
75-34-3	1,1-Dichloroethane	3300		20	4.8
75-35-4	1,1-Dichloroethene	59		20	5.0
120-82-1	1,2,4-Trichlorobenzene	ND		20	4.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		200	19
95-50-1	1,2-Dichlorobenzene	ND		20	3.8
107-06-2	1,2-Dichloroethane	ND		20	4.0
78-87-5	1,2-Dichloropropane	ND		20	5.0
541-73-1	1,3-Dichlorobenzene	ND		20	3.6
106-46-7	1,4-Dichlorobenzene	ND		20	3.4
78-93-3	2-Butanone (MEK)	ND	R	1000	53
591-78-6	2-Hexanone	ND	R	200	26
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0_	200	16
67-64-1	Acetone	ND	(2	500	53
71-43-2	Benzene	ND		20	4.0
75-25-2	Bromoform	ND		20	5.8
74-83-9	Bromomethane	ND		20	7.0
75-15-0	Carbon disulfide	ND		20	4.4
56-23-5	Carbon tetrachloride	ND		20	3.6
108-90-7	Chlorobenzene	ND		20	3.6
124-48-1	Dibromochloromethane	ND		20	5.0
75-00-3	Chloroethane	91		20	7.2
67-66-3	Chloroform	ND		20	4.6
74-87-3	Chloromethane	ND		20	7.2
156-59-2	cis-1,2-Dichloroethene	250		20	4.2
110-82-7	Cyclohexane	ND		100	2.6
75-27-4	Bromodichloromethane	ND		20	3.4
75-71-8	Dichlorodifluoromethane	ND		20	3.4
100-41-4	Ethylbenzene	ND		20	3.8
106-93-4	1,2-Dibromoethane	ND		20	4.2
98-82-8	Isopropylbenzene	ND		20	6.6
79-20-9	Methyl acetate	ND	(2	200	12

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Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1 SDG No.: Client Sample ID: SR-106 Lab Sample ID: 480-152070-2 Matrix: Water Lab File ID: 042619-13.D Analysis Method: 8260C Date Collected: 04/17/2019 16:20 Sample wt/vol: 10(mL) Date Analyzed: 04/26/2019 17:28 Dilution Factor: 20 Soil Aliquot Vol: Soil Extract Vol.: GC Column: ZB-624 ID: 0.18 (mm) % Moisture: Level: (low/med) Low Analysis Batch No.: 590828 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		20	3.4
108-87-2	Methylcyclohexane	ND	135	100	1.8
75-09-2	Methylene Chloride	ND		100	20
127-18-4	Tetrachloroethene	ND		20	2.8
108-88-3	Toluene	ND		20	3.4
156-60-5	trans-1,2-Dichloroethene	8.8	J	20	4.6
10061-02-6	trans-1,3-Dichloropropene	ND		20	3.4
79-01-6	Trichloroethene	58		20	4.0
75-69-4	Trichlorofluoromethane	ND		20	4.2
75-01-4	Vinyl chloride	100		20	3.6
1330-20-7	Xylenes, Total	ND		60	. 12
10061-01-5	cis-1,3-Dichloropropene	ND		20	3.4
100-42-5	Styrene	ND		20	5.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130



Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1			
SDG No.:				
Client Sample ID: SR-108	Lab Sample ID: 480-152143-1			
Matrix: Water	Lab File ID: 04251915.D			
Analysis Method: 8260C	Date Collected: 04/18/2019 09:15			
Sample wt/vol: 5(mL)	Date Analyzed: 04/25/2019 20:03			
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: DB-624 ID: 0.18 (mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No.: 590455	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	12		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	43		1.0	0.24
75-35-4	1,1-Dichloroethene	9.5		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND	- 0	50	2.6
591-78-6	2-Hexanone	ND	0	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	ND	.15	25	2.7
71-43-2	Benzene	2.8		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND	j k	1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
110-82-7	Cyclohexane	6.0		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND		1.0	0.17
100-41-4	Ethylbenzene	0.34	J	1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58
1634-04-4	Methyl tert-butyl ether	ND	+	1.0	0.17

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Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1			
SDG No.:				
Client Sample ID: SR-108	Lab Sample ID: 480-152143-1			
Matrix: Water	Lab File ID: 04251915.D			
Analysis Method: 8260C	Date Collected: 04/18/2019 09:15			
Sample wt/vol: 5(mL)	Date Analyzed: 04/25/2019 20:03			
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: DB-624 ID: 0.18 (mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No.: 590455	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-87-2	Methylcyclohexane	8.4		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	0.35	J	1.0	0.14
108-88-3	Toluene	1.4		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	17		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	47		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	108		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1 SDG No.: Client Sample ID: SR-108 Lab Sample ID: 480-152143-1 Matrix: Water Lab File ID: 04261911.D Analysis Method: 8260C Date Collected: 04/18/2019 09:15 Sample wt/vol: 5(mL) Date Analyzed: 04/26/2019 17:34 Dilution Factor: 5 Soil Aliquot Vol: Soil Extract Vol.: GC Column: DB-624 ID: 0.18 (mm) % Moisture: Level: (low/med) Low Analysis Batch No.: 590775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	480	Ī	5.0	1.1
79-01-6	Trichloroethene	530	1	5.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	107	-	70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1				
SDG No.:					
Client Sample ID: TB-20190417	Lab Sample ID: 480-152070-3				
Matrix: Water	Lab File ID: 042519-11.D				
Analysis Method: 8260C	Date Collected: 04/17/2019 00:00				
Sample wt/vol: 10 (mL)	Date Analyzed: 04/25/2019 17:04				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18(mm)				
% Moisture:	Level: (low/med) Low				
Analysis Batch No.: 590475	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND	,	1.0	0.19
107-06-2	1,2-Dichloroethane	ND	*	1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND	2	50	2.6
591-78-6	2-Hexanone	ND	2	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2	10	0.81
67-64-1	Acetone	ND	2	25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND		1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND	<u> </u>	1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND	¥	1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND	-	1.0	0.33
79-20-9	Methyl acetate	ND	0	10	0.58

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Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1		
SDG No.:	¥		
Client Sample ID: TB-20190417	Lab Sample ID: 480-152070-3		
Matrix: Water	Lab File ID: 042519-11.D		
Analysis Method: 8260C	Date Collected: 04/17/2019 00:00		
Sample wt/vol: 10 (mL)	Date Analyzed: 04/25/2019 17:04		
Soil Aliquot Vol:	Dilution Factor: 1		
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18 (mm)		
% Moisture:	Level: (low/med) Low		
Analysis Batch No.: 590475	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND	51	1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	7 7	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)		115	P-1	70-130
460-00-4	4-Bromofluorobenzene (Surr)		95		70-130
2037-26-5	Toluene-d8 (Surr)		98		70-130
1868-53-7	Dibromofluoromethane (Surr)		109		70-130

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1
SDG No.:	
Client Sample ID: TB-20190418	Lab Sample ID: 480-152143-6
Matrix: Water	Lab File ID: 04251912.D
Analysis Method: 8260C	Date Collected: 04/18/2019 00:00
Sample wt/vol: 5 (mL)	Date Analyzed: 04/25/2019 18:44
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: DB-624 ID: 0.18 (mm)
% Moisture:	Level: (low/med) Low
Analysis Batch No.: 590455	Units: ug/L

		3112			
CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND		1.0	0.1
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.1
75-34-3	1,1-Dichloroethane	ND		1.0	0.2
75-35-4	1,1-Dichloroethene	ND		1.0	0.2
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.9
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.1
107-06-2	1,2-Dichloroethane	ND		1.0	0.2
78-87-5	1,2-Dichloropropane	ND	-	1.0	0.2
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.1
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.1
78-93-3	2-Butanone (MEK)	ND	0	50	2.
591-78-6	2-Hexanone	ND	12	10	1.
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.8
67-64-1	Acetone	NĐ	2	25	2.
71-43-2	Benzene	ND		1.0	0.2
75-25-2	Bromoform	ND	,	1.0	0.2
74-83-9	Bromomethane	ND	/	1.0	0.3
75-15-0	Carbon disulfide	ND	-	1.0	0.2
56-23-5	Carbon tetrachloride	ND		1.0	0.1
108-90-7	Chlorobenzene	ND		1.0	0.1
124-48-1	Dibromochloromethane	ND		1.0	0.2
75-00-3	Chloroethane	ND		1.0	0.3
67-66-3	Chloroform	ND		1.0	0.2
74-87-3	Chloromethane	ND		1.0	0.3
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.2
110-82-7	Cyclohexane	ND	-	5.0	0.1
75-27-4	Bromodichloromethane	ND		1.0	0.1
75-71-8	Dichlorodifluoromethane	ND		1.0	0.1
	Ethylbenzene	ND		1.0	0.1
100-41-4	Lucity Excitation				
100-41-4 106-93-4	1,2-Dibromoethane	ND	+	1.0	0.2
		ND ND		1.0	0.2

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Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152070-1
SDG No.:	
Client Sample ID: TB-20190418	Lab Sample ID: 480-152143-6
Matrix: Water	Lab File ID: 04251912.D
Analysis Method: 8260C	Date Collected: 04/18/2019 00:00
Sample wt/vol: 5(mL)	Date Analyzed: 04/25/2019 18:44
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: DB-624 ID: 0.18(mm)
% Moisture:	Level: (low/med) Low
Analysis Batch No.: 590455	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	108		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152241-1
SDG No.:	
Client Sample ID: TB-20190419	Lab Sample ID: 480-152241-4
Matrix: Water	Lab File ID: 0426-17.D
Analysis Method: 8260C	Date Collected: 04/19/2019 00:00
Sample wt/vol: 10(mL)	Date Analyzed: 04/26/2019 22:20
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18(mm)
% Moisture:	Level: (low/med) Low
Analysis Batch No.: 590877	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND	1	1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	NB	2	50	2.6
591-78-6	2-Hexanone	ND	0	. 10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2	10	0.81
67-64-1	Acetone	9.3	J	25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND		1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND .		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND		1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND	0	10	0.58

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Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152241-1				
SDG No.:					
Client Sample ID: TB-20190419	Lab Sample ID: 480-152241-4				
Matrix: Water	Lab File ID: 0426-17.D				
Analysis Method: 8260C	Date Collected: 04/19/2019 00:00				
Sample wt/vol: 10(mL)	Date Analyzed: 04/26/2019 22:20				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18(mm)				
% Moisture:	Level: (low/med) Low				
Analysis Batch No.: 590877	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	\mathtt{MDL}
1634-04-4	Methyl tert-butyl ether	ND	İ	1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND	1	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND	1	3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130

Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152320-1
SDG No.:	
Client Sample ID: TB-20190422	Lab Sample ID: 480-152320-5
Matrix: Water	Lab File ID: 042919-21.D
Analysis Method: 8260C	Date Collected: 04/22/2019 00:00
Sample wt/vol: 10 (mL)	Date Analyzed: 04/29/2019 18:37
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18 (mm)
% Moisture:	Level: (low/med) Low
Analysis Batch No.: 591225	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND	35	1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND	1	1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND	2	50	2.6
591-78-6	2-Hexanone	ND	R	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	R	10	0.81
67-64-1	Acetone	ND	2	25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND		1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND	1	1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND		1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND	0	10	0.58

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Lab Name: Eurofins TestAmerica, Nashville	Job No.: 480-152320-1
SDG No.:	
Client Sample ID: TB-20190422	Lab Sample ID: 480-152320-5
Matrix: Water	Lab File ID: 042919-21.D
Analysis Method: 8260C	Date Collected: 04/22/2019 00:00
Sample wt/vol: 10 (mL)	Date Analyzed: 04/29/2019 18:37
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 ID: 0.18(mm)
% Moisture:	Level: (low/med) Low
Analysis Batch No.: 591225	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND	. 1	5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-130
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	111		70-130

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1 SDG No.: Client Sample ID: BRW-01 Lab Sample ID: 480-152320-3 Matrix: Water Lab File ID: U33150199.D Analysis Method: 8270D SIM ID Date Collected: 04/22/2019 11:35 Extract. Method: 3510C Date Extracted: 04/24/2019 15:38 Sample wt/vol: 1000(mL) Date Analyzed: 05/03/2019 00:00 Con. Extract Vol.: 1(mL) Dilution Factor: 20 Injection Volume: 1(uL) Level: (low/med) Low % Moisture: GPC Cleanup: (Y/N) N Analysis Batch No.: 470920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	110	E F2	4.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	19		15-110



Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1 SDG No.: Client Sample ID: FD-20190422 Lab Sample ID: 480-152320-4 Lab File ID: U33150190.D Matrix: Water Analysis Method: 8270D SIM ID Date Collected: 04/22/2019 00:00 Extract. Method: 3510C Date Extracted: 04/24/2019 15:38 Sample wt/vol: 1000(mL) Date Analyzed: 05/02/2019 20:25 Con. Extract Vol.: 1(mL) Dilution Factor: 20 Injection Volume: 1(uL) Level: (low/med) Low % Moisture: GPC Cleanup: (Y/N) N Analysis Batch No.: 470920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	120	E	4.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	17		15-110

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Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1 SDG No.: Client Sample ID: BRW-02 Lab Sample ID: 480-152241-2 Lab File ID: U33150194.D Matrix: Water Analysis Method: 8270D SIM ID Date Collected: 04/19/2019 10:35 Extract. Method: 3510C Date Extracted: 04/24/2019 15:38 Sample wt/vol: 1000(mL) Date Analyzed: 05/02/2019 22:00 Dilution Factor: 5 Con. Extract Vol.: 1(mL) Injection Volume: 1(uL) Level: (low/med) Low GPC Cleanup: (Y/N) N % Moisture: Analysis Batch No.: 470920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	22	E	1.0	0.50

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	25		15-110

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1 SDG No.: Client Sample ID: SR-001 Lab Sample ID: 480-152143-3 Matrix: Water Lab File ID: U33149934.D Analysis Method: 8270D SIM ID Date Collected: 04/18/2019 12:35 Extract. Method: 3510C Date Extracted: 04/19/2019 15:37 Sample wt/vol: 1000(mL) Date Analyzed: 04/23/2019 15:58 Con. Extract Vol.: 1(mL) Dilution Factor: 5 Injection Volume: 1(uL) Level: (low/med) Low % Moisture: GPC Cleanup: (Y/N) N Analysis Batch No.: 469309 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	7.5	Z	1.0	0.50

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	21		15-110

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Lab Name: Eurofins TestAmerica, Buffalo	Job No.: 480-152070-1
SDG No.:	
Client Sample ID: SR-002	Lab Sample ID: 480-152143-4
Matrix: Water	Lab File ID: <u>U33149921.D</u>
Analysis Method: 8270D SIM ID	Date Collected: 04/18/2019 14:15
Extract. Method: 3510C	Date Extracted: 04/19/2019 15:37
Sample wt/vol: 1000 (mL)	Date Analyzed: 04/23/2019 03:45
Con. Extract Vol.: 1(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup: (Y/N) N
Analysis Batch No.: 469131	Units: ug/L

COMPOUND NAME	RESULT	Q	RL	MDL
1,4-Dioxane	0.60		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	22		15-110

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1 SDG No.: Client Sample ID: SR-003 Lab Sample ID: 480-152143-5 Matrix: Water Lab File ID: U33149922.D Analysis Method: 8270D SIM ID Date Collected: 04/18/2019 15:35 Extract. Method: 3510C Date Extracted: 04/19/2019 15:37 Sample wt/vol: 1000(mL) Date Analyzed: 04/23/2019 04:09 Con. Extract Vol.: 1(mL) Dilution Factor: 1 Injection Volume: 1(uL) Level: (low/med) Low GPC Cleanup: (Y/N) N % Moisture: Analysis Batch No.: 469131 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.3	Z	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	.25		15-110



Lab Name: Eurofins TestAmerica, Buffalo	Job No.: 480-152241-1
SDG No.:	
Client Sample ID: SR-004	Lab Sample ID: 480-152241-1
Matrix: Water	Lab File ID: U33150048.D
Analysis Method: 8270D SIM ID	Date Collected: 04/19/2019 09:05
Extract. Method: 3510C	Date Extracted: 04/24/2019 15:38
Sample wt/vol: 1000(mL)	Date Analyzed: 04/26/2019 12:21
Con. Extract Vol.: 1(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup: (Y/N) N
Analysis Batch No.: 469803	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.57		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	18		15-110

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1 SDG No.: Client Sample ID: SR-005 Lab Sample ID: 480-152241-3 Matrix: Water Lab File ID: U33150195.D Analysis Method: 8270D SIM ID Date Collected: 04/19/2019 12:00 Extract. Method: 3510C Date Extracted: 04/24/2019 15:38 Sample wt/vol: 1000(mL) Date Analyzed: 05/02/2019 22:24 Con. Extract Vol.: 1(mL) Dilution Factor: 500 Injection Volume: 1(uL) Level: (low/med) Low % Moisture: GPC Cleanup: (Y/N) N Analysis Batch No.: 470920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1200	E	100	50

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	17		15-110

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Job No.: 480-152320-1 Lab Name: Eurofins TestAmerica, Buffalo SDG No.: Client Sample ID: SR-006 Lab Sample ID: 480-152320-2 Matrix: Water Lab File ID: U33150189.D Analysis Method: 8270D SIM ID Date Collected: 04/22/2019 10:30 Extract. Method: 3510C Date Extracted: 04/24/2019 15:38 Sample wt/vol: 1000(mL) Date Analyzed: 05/02/2019 20:01 Con. Extract Vol.: 1(mL) Dilution Factor: 100 Injection Volume: 1(uL) Level: (low/med) Low GPC Cleanup: (Y/N) N % Moisture: Analysis Batch No.: 470920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	290	Z	20	10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	18		15-110



Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1 SDG No.: Client Sample ID: SR-101 Lab Sample ID: 480-152070-1 Lab File ID: U33149912.D Matrix: Water Analysis Method: 8270D SIM ID Date Collected: 04/17/2019 14:45 Extract. Method: 3510C Date Extracted: 04/19/2019 15:37 Sample wt/vol: 1000(mL) Date Analyzed: 04/23/2019 00:10 Dilution Factor: 1 Con. Extract Vol.: 1(mL) Injection Volume: 1(uL) Level: (low/med) Low GPC Cleanup: (Y/N) N % Moisture: Analysis Batch No.: 469131 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	3.3	E	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	23		15-110



Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1 SDG No.: Client Sample ID: SR-104 Lab Sample ID: 480-152143-2 Matrix: Water Lab File ID: U33149933.D Analysis Method: 8270D SIM ID Date Collected: 04/18/2019 10:35 Extract. Method: 3510C Date Extracted: 04/19/2019 15:37 Sample wt/vol: 1000(mL) Date Analyzed: 04/23/2019 15:33 Con. Extract Vol.: 1(mL) Dilution Factor: 5 Injection Volume: 1(uL) Level: (low/med) Low % Moisture: GPC Cleanup: (Y/N) N Analysis Batch No.: 469309 Units: ug/L CAS NO. COMPOUND NAME RESULT -Q MDL RL123-91-1 1,4-Dioxane 12 1.0 0.50

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%REC

CAS NO.

1,4-Dioxane-d8

17647-74-4

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1 SDG No.: Client Sample ID: SR-105 Lab Sample ID: 480-152320-1 Matrix: Water Lab File ID: U33150253.D Analysis Method: 8270D SIM ID Date Collected: 04/22/2019 08:50 Extract. Method: 3510C Date Extracted: 04/24/2019 15:38 Sample wt/vol: 1000(mL) Date Analyzed: 05/05/2019 16:46 Con. Extract Vol.: 1(mL) Dilution Factor: 100 Injection Volume: 1(uL) Level: (low/med) Low % Moisture: GPC Cleanup: (Y/N) N Analysis Batch No.: 471268 Units: ug/L

CAS NO.	COMPOUND N	NAME	RESULT	Q.	RL	MDL
123-91-1	1,4-Dioxane		3100	B	20	10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	28		15-110

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Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1 SDG No.: Client Sample ID: SR-106 Lab Sample ID: 480-152070-2 Lab File ID: U33149932.D Matrix: Water Analysis Method: 8270D SIM ID Date Collected: 04/17/2019 16:20 Extract. Method: 3510C Date Extracted: 04/19/2019 15:37 Sample wt/vol: 1000(mL) Date Analyzed: 04/23/2019 15:09 Con. Extract Vol.: 1(mL) Dilution Factor: 100 Injection Volume: 1(uL) Level: (low/med) Low % Moisture: GPC Cleanup: (Y/N) N Analysis Batch No.: 469309 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	· ·- ·- ·	240	Z	20	10

CAS NO		ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-	-4	1,4-Dioxane-d8	22		15-110

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Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1 SDG No.: Client Sample ID: SR-108 Lab Sample ID: 480-152143-1 Matrix: Water Lab File ID: U33149918.D Analysis Method: 8270D SIM ID Date Collected: 04/18/2019 09:15 Extract. Method: 3510C Date Extracted: 04/19/2019 15:37 Sample wt/vol: 1000(mL) Date Analyzed: 04/23/2019 02:33 Con. Extract Vol.: 1(mL) Dilution Factor: 1 Injection Volume: 1(uL) Level: (low/med) Low % Moisture: GPC Cleanup: (Y/N) N Analysis Batch No.: 469131 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.7	Z	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	24		15-110

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1A-IN INORGANIC ANALYSIS DATA SHEET METALS

Client Sample ID: BRW-01 Lab Sample ID: 480-152320-3

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1

SDG ID.:

Matrix: Water Date Sampled: 04/22/2019 11:35

Reporting Basis: WET Date Received: 04/22/2019 17:00

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	13.5	0.050	0.019	mg/L			1	6010C
7439-96-5	Manganese	0.66	0.0030	0.00040	mg/L		257	1	6010C

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1A-IN INORGANIC ANALYSIS DATA SHEET METALS - DISSOLVED

Client Sample ID: BRW-01 Lab Sample ID: 480-152320-3

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1

SDG ID.:

Matrix: Water Date Sampled: 04/22/2019 11:35

Reporting Basis: WET Date Received: 04/22/2019 17:00

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	6.5	0.050	0.019	mg/L			1	6010C
7439-96-5	Manganese, Dissolved	0.74	0.0030	0.00040	mg/L		-54	1	6010C



1A-IN INORGANIC ANALYSIS DATA SHEET METALS



CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	14.5	0.050	0.019	mg/L			. 1	6010C
7439-96-5	Manganese	0.66	0.0030	0.00040	mg/L		BS	1	6010C

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1A-IN INORGANIC ANALYSIS DATA SHEET METALS - DISSOLVED



CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	6.1	0.050	0.019	mg/L			1	6010C
7439-96-5	Manganese, Dissolved	0.72	0.0030	0.00040	mg/L		54	1	6010C

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1A-IN INORGANIC ANALYSIS DATA SHEET METALS

Client Sample ID: BRW-02 Lab Sample ID: 480-152241-2

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1

SDG ID.:

Matrix: Water Date Sampled: 04/19/2019 10:35

Reporting Basis: WET Date Received: 04/19/2019 13:50

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	42.0	0.050	0.019	mg/L		B	1	6010C
7439-96-5	Manganese	0.55	0.0030	0.00040	mg/L		5+	1	6010C



1A-IN INORGANIC ANALYSIS DATA SHEET METALS - DISSOLVED

Lab Sample ID: 480-152241-2 Client Sample ID: BRW-02

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1

SDG ID.:

Date Sampled: 04/19/2019 10:35 Matrix: Water

Date Received: 04/19/2019 13:50 Reporting Basis: WET

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	14.5	0.050	0.019	mg/L			. 1	6010C
7439-96-5	Manganese, Dissolved	0.44	0.0030	0.00040	mg/L		づ十	1	6010C

1A-IN INORGANIC ANALYSIS DATA SHEET METALS

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	9.8	0.050	0.019	mg/L			1	6010C
7439-96-5	Manganese	0.039	0.0030	0.00040	mg/L		B. 54	-1	6010C



1A-IN INORGANIC ANALYSIS DATA SHEET METALS - DISSOLVED

Client Sample ID: SR-001

Lab Sample ID: 480-152143-3

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-152070-1

SDG ID.:

Matrix: Water

Date Sampled: 04/18/2019 12:35

Reporting Basis: WET

Date Received: 04/18/2019 17:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	0.069	0.050	0.019	mg/L		-3-	1	6010C
7439-96-5	Manganese, Dissolved	0.013	0.0030	0.00040	mg/L			1	6010C



1A-IN INORGANIC ANALYSIS DATA SHEET METALS

Client Sample ID: SR-002 Lab Sample ID: 480-152143-4

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG ID.:

Matrix: Water Date Sampled: 04/18/2019 14:15

Reporting Basis: WET Date Received: 04/18/2019 17:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	17.2	0.050	0.019	mg/L		,	1	6010C
7439-96-5	Manganese	0.14	0.0030	0.00040	mg/L		B5+	1	6010C



1A-IN INORGANIC ANALYSIS DATA SHEET METALS - DISSOLVED

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	0.99	0.050	0.019	mg/L		3-	1	6010C
7439-96-5	Manganese, Dissolved	0.071	0.0030	0.00040	mg/L			1	6010C

Arsk Jaha

Client Sample ID: SR-003

Lab Sample ID: 480-152143-5

Lab Name: Eurofins TestAmerica, Buffalo

SDG ID.:

Matrix: Water

Date Sampled: 04/18/2019 15:35

Reporting Basis: WET

Date Received: 04/18/2019 17:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	86.4	0.050	0.019	mg/L			1	6010C
7439-96-5	Manganese	1.1	0.0030	0.00040	mg/L		8-54	1	6010C

Sept Stalla

Client Sample ID: SR-003

Lab Sample ID: 480-152143-5

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-152070-1

SDG ID.:

Matrix: Water

Date Sampled: 04/18/2019 15:35

Reporting Basis: WET

Date Received: 04/18/2019 17:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	3.3	0.050	0.019	mg/L		-5-	- 1	6010C
7439-96-5	Manganese, Dissolved	0.16	0.0030	0.00040	mg/L			1	6010C



Client Sample ID: SR-004 Lab Sample ID: 480-152241-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1

SDG ID.:

Matrix: Water Date Sampled: 04/19/2019 09:05

Reporting Basis: WET Date Received: 04/19/2019 13:50

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	48.9	0.050	0.019	mg/L		, B	1	6010C
7439-96-5	Manganese	0.62	0.0030	0.00040	mg/L		5+	1	6010C

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Client Sample ID: SR-004 Lab Sample ID: 480-152241-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1

SDG ID.:

Matrix: Water Date Sampled: 04/19/2019 09:05

Reporting Basis: WET Date Received: 04/19/2019 13:50

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	0.19	0.050	0.019	mg/L			1	6010C
7439-96-5	Manganese, Dissolved	0.048	0.0030	0.00040	mg/L		ゴナ	1	6010C

Orden Ca

Client Sample ID: SR-005 Lab Sample ID: 480-152241-3

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1

SDG ID.:

Matrix: Water Date Sampled: 04/19/2019 12:00

Reporting Basis: WET Date Received: 04/19/2019 13:50

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	140	0.050	0.019	mg/L		B	. 1	6010C
7439-96-5	Manganese	1.7	0.0030	0.00040	mg/L		5+	1	6010C



Client Sample ID: SR-005

Lab Sample ID: 480-152241-3

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-152241-1

SDG ID.:

Matrix: Water

Date Sampled: 04/19/2019 12:00

Reporting Basis: WET

Date Received: 04/19/2019 13:50

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	129	0.050	0.019	mg/L			1	6010C
7439-96-5	Manganese, Dissolved	1.5	0.0030	0.00040	mg/L		ゴナ	1	6010C



Client Sample ID: SR-006

Lab Sample ID: 480-152320-2

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-152320-1

SDG ID.:

Matrix: Water

Date Sampled: 04/22/2019 10:30

Reporting Basis: WET

Date Received: 04/22/2019 17:00

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	16.0	0.050	0.019	mg/L			1	6010C
7439-96-5	Manganese	0.28	0.0030	0.00040	mg/L		8	1	6010C



Client Sample ID: SR-006 Lab Sample ID: 480-152320-2

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1

SDG ID.:

Matrix: Water Date Sampled: 04/22/2019 10:30

Reporting Basis: WET Date Received: 04/22/2019 17:00

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	3.5	0.050	0.019	mg/L		1	1	6010C
7439-96-5	Manganese, Dissolved	0.17	0.0030	0.00040	mg/L		54	1	6010C



Client Sample ID: SR-101 Lab Sample ID: 480-152070-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG ID.:

Matrix: Water Date Sampled: 04/17/2019 14:45

Reporting Basis: WET Date Received: 04/17/2019 18:15

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	4.1	0.050	0.019	mg/L		-5-	1	6010C
7439-96-5	Manganese	0.061	0.0030	0.00040	mg/L			1	6010C

Drok Jaha

Client Sample ID: SR-101

Lab Sample ID: 480-152070-1

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-152070-1

SDG ID.:

Matrix: Water

Date Sampled: 04/17/2019 14:45

Reporting Basis: WET

Date Received: 04/17/2019 18:15

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	0.11	0.050	0.019	mg/L			1	6010C
7439-96-5	Manganese, Dissolved	0.028	0.0030	0.00040	mg/L		7	1	6010C



Client Sample ID: SR-104 Lab Sample ID: 480-152143-2

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG ID.:

Matrix: Water Date Sampled: 04/18/2019 10:35

Reporting Basis: WET Date Received: 04/18/2019 17:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	0.94	0.050	0.019	mg/L			1	6010C
7439-96-5	Manganese	0.061	0.0030	0.00040	mg/L		B-5+	1	6010C

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Client Sample ID: SR-104

Lab Sample ID: 480-152143-2

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-152070-1

SDG ID.:

Matrix: Water

Date Sampled: 04/18/2019 10:35

Reporting Basis: WET

Date Received: 04/18/2019 17:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	0.38	0.050	0.019	mg/L		-5-	1	6010C
7439-96-5	Manganese, Dissolved	0.051	0.0030	0.00040	mg/L			1	6010C

Client Sample ID: SR-105 Lab Sample ID: 480-152320-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1

SDG ID.:

Matrix: Water Date Sampled: 04/22/2019 08:50

Reporting Basis: WET Date Received: 04/22/2019 17:00

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	14.1	0.050	0.019	mg/L			1	6010C
7439-96-5	Manganese	0.31	0.0030	0.00040	mg/L		B-5+	1	6010C

Dry Silla

Client Sample ID: SR-105 Lab Sample ID: 480-152320-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1

SDG ID.:

Matrix: Water Date Sampled: 04/22/2019 08:50

Reporting Basis: WET Date Received: 04/22/2019 17:00

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	11.1	0.050	0.019	mg/L			1	6010C
7439-96-5	Manganese, Dissolved	0.27	0.0030	0.00040	mg/L		-54	1	6010C



Client Sample ID: SR-106

Lab Sample ID: 480-152070-2

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-152070-1

SDG ID.:

Matrix: Water

Date Sampled: 04/17/2019 16:20

Reporting Basis: WET

Date Received: 04/17/2019 18:15

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	2.9	0.050	0.019	mg/L		-3-	1	6010C
7439-96-5	Manganese	0.049	0.0030	0.00040	mg/L			1	6010C



Client Sample ID: SR-106

Lab Sample ID: 480-152070-2

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-152070-1

SDG ID.:

Matrix: Water

Date Sampled: 04/17/2019 16:20

Reporting Basis: WET

Date Received: 04/17/2019 18:15

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	0.69	0.050	0.019	mg/L			1 1	6010C
7439-96-5	Manganese, Dissolved	0.041	0.0030	0.00040	mg/L		15	1	6010C



Client Sample ID: SR-108

Lab Sample ID: 480-152143-1

Lab Name: Eurofins TestAmerica, Buffalo

SDG ID.:

Matrix: Water

Date Sampled: 04/18/2019 09:15

Reporting Basis: WET Date Received: 04/18/2019 17:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron	28.5	0.050	0.019	mg/L			1	6010C
7439-96-5	Manganese	0.16	0.0030	0.00040	mg/L		B	1	6010C

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Client Sample ID: SR-108 Lab S

Lab Sample ID: 480-152143-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG ID.:

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Matrix: Water Date Sampled: 04/18/2019 09:15

Reporting Basis: WET Date Received: 04/18/2019 17:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	1.3	0.050	0.019	mg/L		51	1	6010C
7439-96-5	Manganese, Dissolved	0.058	0.0030	0.00040	mg/L			1	6010C



Client Sample ID: BRW-01

Lab Sample ID: 480-152320-3

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-152320-1

SDG ID.:

Matrix: Water

Date Sampled: 04/22/2019 11:35

Reporting Basis: WET

Date Received: 04/22/2019 17:00

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
	Chemical Oxygen Demand	24.8	10.0	5.0	mg/L			1	410.4
14797-55-8	Nitrate as N	ND	0.050	0.025	mg/L		A y	1	300.0
14808-79-8	Sulfate	32.3	2.0	0.35	mg/L			1	300.0
	Biochemical Oxygen Demand	ND	2.0	2.0	mg/L		× 5	1	SM 5210B





CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
_	Chemical Oxygen Demand	31.1	10.0	5.0	mg/L		,	1	410.4
14797-55-8	Nitrate as N	ND	0.050	0.025	mg/L		JY O-	1	300.0
14808-79-8	Sulfate	31.8	2.0	0.35	mg/L			1	300.0
	Biochemical Oxygen Demand	ND	30.0	30.0	mg/L		ل كلا	5 5	SM 5210B



Client Sample ID: BRW-02 Lab Sample ID: 480-152241-2

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1

SDG ID.:

Matrix: Water Date Sampled: 04/19/2019 10:35

Reporting Basis: WET Date Received: 04/19/2019 13:50

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
	Chemical Oxygen Demand	35.4	10.0	5.0	mg/L			1	410.4
14797-55-8	Nitrate as N	ND	0.050	0.025	mg/L		H T	1	300.0
14808-79-8	Sulfate	5.2	2.0	0.35	mg/L			1	300.0
	Biochemical Oxygen Demand	ND	2.0	2.0	mg/L			1	SM 5210B



Client Sample ID: SR-001 Lab Sample ID: 480-152143-3

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG ID.:

Matrix: Water Date Sampled: 04/18/2019 12:35

Reporting Basis: WET Date Received: 04/18/2019 17:20

CAS No.	Analyte	Result	RL	MDL	Units	С	g Q	DIL	Method
	Chemical Oxygen Demand	31.1	10.0	5.0	mg/L			1	410.4
14797-55-8	Nitrate as N	ND	0.10	0.050	mg/L			2	300.0
14808-79-8	Sulfate	2.4	4.0	0.70	mg/L	J		2	300.0
	Biochemical Oxygen Demand	ND	2.0	2.0	mg/L			1	SM 5210B

Client Sample ID: SR-002

Lab Sample ID: 480-152143-4

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-152070-1

SDG ID.:

Matrix: Water

Date Sampled: 04/18/2019 14:15

Reporting Basis: WET

Date Received: 04/18/2019 17:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
	Chemical Oxygen Demand	7.6	10.0	5.0	mg/L	J		1	410.4
14797-55-8	Nitrate as N	ND	0.050	0.025	mg/L			1	300.0
14808-79-8	Sulfate	17.7	2.0	0.35	mg/L			1	300.0
	Biochemical Oxygen Demand	ND	6.0	6.0	mg/L		JH .	1	SM 5210E



Client Sample ID: SR-003 Lab Sample ID: 480-152143-5

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG ID.:

Matrix: Water Date Sampled: 04/18/2019 15:35

Reporting Basis: WET Date Received: 04/18/2019 17:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
	Chemical Oxygen Demand	43.6	10.0	5.0	mg/L			1	410.4
14797-55-8	Nitrate as N	ND	0.25	0.13	mg/L			5	300.0
14808-79-8	Sulfate	106	10.0	1.7	mg/L			5	300.0
	Biochemical Oxygen Demand	ND	3.0	3.0	mg/L		JH	1	SM 5210B



Client Sample ID: SR-004 Lab Sample ID: 480-152241-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1

SDG ID.:

Matrix: Water Date Sampled: 04/19/2019 09:05

Reporting Basis: WET Date Received: 04/19/2019 13:50

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
	Chemical Oxygen Demand	50.2	10.0	5.0	mg/L	L		1	410.4
14797-55-8	Nitrate as N	ND	0.050	0.025	mg/L		H 3	1	300.0
14808-79-8	Sulfate	23.3	2.0	0.35	mg/L			1	300.0
	Biochemical Oxygen Demand	ND	2.0	2.0	mg/L		H ()	7 1	SM 5210B



Client Sample ID: SR-005 Lab Sample ID: 480-152241-3

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1

SDG ID.:

Matrix: Water Date Sampled: 04/19/2019 12:00

Reporting Basis: WET Date Received: 04/19/2019 13:50

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
	Chemical Oxygen Demand	80.6	10.0	5.0	mg/L			1	410.4
14797-55-8	Nitrate as N	ND	0.050	0.025	mg/L		H (1	300.0
14808-79-8	Sulfate	31.4	2.0	0.35	mg/L			1	300.0
	Biochemical Oxygen Demand	9.3	2.0	2.0	mg/L		100	1	SM 5210E



CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
-	Chemical Oxygen Demand	39.3	10.0	5.0	mg/L		<u> </u>	1	410.4
14797-55-8	Nitrate as N	ND	0.050	0.025	mg/L		B/ \)"	1	300.0
14808-79-8	Sulfate	31.2	2.0	0.35	mg/L			1	300.0
	Biochemical Oxygen Demand	ND	2.0	2.0	mg/L		105	1	SM 5210B



Client Sample ID: SR-101 Lab Sample ID: 480-152070-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG ID.:

Matrix: Water Date Sampled: 04/17/2019 14:45

Reporting Basis: WET Date Received: 04/17/2019 18:15

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
_	Chemical Oxygen Demand	29.4	10.0	5.0	mg/L			1	410.4
14797-55-8	Nitrate as N	ND	0.10	0.050	mg/L			2	300.0
14808-79-8	Sulfate	118	4.0	0.70	mg/L			2	300.0
	Biochemical Oxygen Demand	ND	2.0	2.0	mg/L		. **	1	SM 52101

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Client Sample ID: SR-104

Lab Sample ID: 480-152143-2

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-152070-1

SDG ID.:

Matrix: Water

Date Sampled: 04/18/2019 10:35

Reporting Basis: WET

Date Received: 04/18/2019 17:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
	Chemical Oxygen Demand	11.3	10.0	5.0	mg/L			1	410.4
14797-55-8	Nitrate as N	ND	0.10	0.050	mg/L			2	300.0
14808-79-8	Sulfate	36.4	4.0	0.70	mg/L			2	300.0
	Biochemical Oxygen Demand	ND	2.0	2.0	mg/L			1	SM 5210B

Client Sample ID: SR-105 Lab Sample ID: 480-152320-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1

SDG ID.:

Matrix: Water Date Sampled: 04/22/2019 08:50

Reporting Basis: WET Date Received: 04/22/2019 17:00

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
	Chemical Oxygen Demand	127	10.0	5.0	mg/L			1	410.4
14797-55-8	Nitrate as N	ND	0.050	0.025	mg/L		B -	1	300.0
14808-79-8	Sulfate	11.8	2.0	0.35	mg/L			1	300.0
	Biochemical Oxygen Demand	57.8	24.0	24.0	mg/L		15	1	SM 5210B



Client Sample ID: SR-106 Lab Sample ID: 480-152070-2

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG ID.:

Matrix: Water Date Sampled: 04/17/2019 16:20

Reporting Basis: WET Date Received: 04/17/2019 18:15

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
	Chemical Oxygen Demand	119	50.0	25.0	mg/L			5	410.4
14797-55-8	Nitrate as N	0.79	0.25	0.13	mg/L			5	300.0
14808-79-8	Sulfate	142	10.0	1.7	mg/L		t t	5	300.0
	Biochemical Oxygen Demand	ND	2.0	2.0	mg/L		H' U	1	SM 5210B

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Client Sample ID: SR-108 Lab Sample ID: 480-152143-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG ID.:

Matrix: Water Date Sampled: 04/18/2019 09:15

Reporting Basis: WET Date Received: 04/18/2019 17:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
	Chemical Oxygen Demand	21.2	10.0	5.0	mg/L			1	410.4
14797-55-8	Nitrate as N	ND	0.10	0.050	mg/L			2	300.0
14808-79-8	Sulfate	11.8	4.0	0.70	mg/L			2	300.0
	Biochemical Oxygen Demand	ND	3.0	3.0	mg/L			1	SM 5210B

ATTACHMENT B

SUPPORT DOCUMENTATION

🔆 curofins

Chain of Custody Record

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298
Phone (716) 691-2600 Fax (716) 691 7991

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Sample Identification	Sample Date		Gagrab) atotissa And Preservation Code	3	A X	+=		-+=	=	_	09 6	\pm	1	o7 X		al Instruc	Special Instructions/Note:
SR-10,	4/11/19	25.	(3)	Water		~			T .					1=			
5K-106.	151/21/6	1620	J	Water		3	-	2	-	Ξ	_			=			
TB-20190417	4/17/19	١	J	Water		7							-	4			
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						\dashv			_					7			
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Possible Havard Identification					- 5	-			-1		-						
Non-Hazard Telanimable Skin imfant Poison B	on B Unknown	U	Radiological			Retu	spose in To (Sient	e may	Ž X	esseo bosal B	r samp y Lab	nes are	Arch	Service Lisposal (A lee may be assessed it samples are retained longer than 1 month) Return 10 Cient Disposal By Lab Archive For Month	n 1 monti	ntn) Monibs
Deliverable Requested 1, II, III, IV, Other (specify)					Spe	cial Ins	ituctio	Special Instructions/OC Requirements	Requir	ement							
Empty Kit Relinquished by.		Dafe			Time						Meth	Method of Shipmen	preent	Des	10 of	4	
Hendussed by Man	Date/1171/4	@	3 () 3	AECOM AECOM		Hecaned by	7, 5	7	1			å '\	0.000 Times 1	7-10	181 6	Some S	だなの
An all the second secon	Cater me		3	упевно		Recti. of Ju	à		5			Ĝ.	Date/Tume			Cores	Augdura
1	Oate/ime		<u>u</u>	Сптрапу	-	Received by	à					å	Cale/Time			Com	Completery
Custody Seals Infact Custody Seal No A Yes. A No						Cooler 3	втрега	Cooler Temperature(s) °C and Coner Remarks	S pue :	her Ren	arks			~	172		
										l				1		-	

CUrofins | Environment Testing N - None
O - ANADOZ
P - NAZO4S
Q - NAZSC3
R - NAZSC3
S - LZSO4
T - TSP Dodecahydrals
U - Aceinne
W - MCAA
W - PH 4-5
Z - other (specify) Company CA-745 Company Vote: Since laboratory accreditations are subject to change. TestAmerica Laboratories, Int., places the ownerably of method: analysis & accreditation compilance upon out subcoratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not custody maintain accreditation in the State of Origin listed above for analysis/lests/metric being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status about the be brought to TestAmerica accreditation immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to seld compilicance to TestAmerica Laboratories, inc. Special instructions/Note: Ver: 01/16/2019 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mor Preservation Codes C - ZA Costate
D - Nint Acad
E - NaHSO4
F - MeOH
G - Amchior
H - Ascorbic Acid 480-152070-1 OC No: 80-49163.1 .age: Page 1 of 1 Job#: 04.30 I - Ica J - DI Water K - EDTA L - EDA Date/Time: D4/734/14 Date/Time: arenightop to redmitM laigT Ġ 8 480-152070 Date/Time: Method of Shipment New York Analysis Requested Cooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements: Lab PW:
Johnson, Orlette S
E-Mail:
orlette, johnson@testamericainc.com
Accreditations Required (See note):
NELAP - New York
Analysi mma Received by: Received by: Chain of Custody Record × × × G=grab) BT=Tanne, Antir Company Company Preservation Code. Water Water Water Сотралу Type (C=comp, Sample 620 Primary Deliverable Rank: 1 14:45 Eastem 16:20 Sample. Eastern Eastern Due Date Requested: 5/9/2018 TAT Requested (days): Date/Time: 4-93-19 Sample Date 4/17/19 4/17/19 4/17/19 Project#: 48018841 SSOW#: Datte/Time: å Ø Deliverable Requested: I, II, III, IV, Other (specify) Client Information (Sub Contract Lab) Eurofins TestAmerica, Buffalo Custody Seal No.: Sample Identification - Cilent ID (Lab ID) Phone (716) 891-2600 Fax (716) 691-7991 615-726-0177(Tel) 615-726-3404(Fax) ossible Hazard Identification estAmerica Laboratories, Inc TB-20190417 (480-152070-3) 2980 Foster Craighton Drive, Lapp Insulator Site# 819017 Empty Kit Relinquished by. Amherst, NY 14228-2298 Custody Seals Intact: A Yes A No SR-106 (480-152070-2) SR-101 (480-152070-1) Shipping/Receiving Binquished by: nconfirmed State, Zip: TN, 37204 ... Nashville

Page 5775 of 5778

05/17/2019

Chain of Custody Record

Eurofins TestAmerica, Buffalo

Phone (716) 691-2600 Fax (715) 691-7991

Amherst, NY 14228-2298

10 Hazelwood Drive

N. None
O. Astidacz
O. Astidacz
P. NazOds
O. NazSO3
R. NazSZ03
S. H7SC04
T. T.SP Dedecahydrate
U. Aceriore
W. AMG-AA Special instructions/Note: Company Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Solisposal By Lab Archive For Moni COC No 480-129178-29154.1 reservation Codes 770 A - HCL
B - NsOH
C - Zn Acetate
C - Zn Acetate
E - Nitro Acid
E - NaH5O4
F - MeOH
G - Amchior
H - Ascorbic Acid ナナリ Page Page 1 of \$ Ce Water EDIA EDA Dreep Cate/Time Total Number of containers Date/Time Method of Shupment **Analysis Requested** 480-152143 Chain of Custody coler Temperatura(s) "C and Other Remarks 4 + 1 + 4 Ced 8010C - (MOD) Dissolved Fe, Mn Special Instructions/QC Requirements oriette johnson@testamericainc.com 7 anexolG-b,t - Gi_SM_Mi2_G0758 6 8010C - Fe, Mn 000 - 9'011 eceived by Received by Lab PM Johnson, Oriette S E-Mail .7 W S260C - (MOD) TCL IISt OLMO4.2 1 Perform MS/MSD (Yes or No) Company
Acto.4
Company Field Filtered Sample (Yes or No) G=grab) BT=TBsue, A=Atr Matrix Preservation Code Water Water Water Water Water Water Water Water Water Water Water Company 5636 Sample Type (C=comp, Radiological ٥ 9 9 و. でかっつ Sterodard S 1415 .535 815 1235 Sample 5501/51/51/17 Priore 7:5 - 85-C Date Unknown PO # CallOut ID: 136077 WO# Due Date Requested: AT Requested (days 4/18/14 Sampler 61181/4 4118111 Sample Date 4/18/10 4/18/19 4/18/16 Project # 48018841 SSCW#. Date/Time Doison B Ligh Instation-LeRus, NY Skin Imtant Deliverable Requested 1. II. III IV Other (specify) Custody Seal No 257 West Genesee Street Suite 400 201904 Flammab Possible Hazard Identification 901 401app Insulator Site# 819017 201 leorge kısluk@aecom com SR160 Empty Kit Refinguished by 5-R-10-8 Custody Seals Intact
A Yes A No Client Information Sample Identification NY 14202-2657 とな George Kısluk snished by inquished by AECOM Buffato

Job Narrative 480-152070-1

Receipt

The samples were received on 4/17/2019 6:15 PM and 4/18/2019 5:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.3° C, 3.9° C and 5.0° C.

GC/MS VOA

Method(s) 8260C: The following samples were diluted due to the nature of the sample matrix: SR-104 (480-152143-2) and SR-106 (480-152070-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 490-590475 recovered outside control limits for the following analytes: Dichlorodifluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-590455 recovered outside control limits for the following analytes: Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The matrix spike/matrix spike duplicate associated with analytical batch 490-590455 was unable to be analyzed due to instrument communication error. LCS/LCSD has been provided: (LCS 490-590455/3).

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-591541 recovered outside control limits for the following analytes: Bromomethane and Trichlorofluoromethane. These analytes were biased high in the LCS.

Method(s) 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 490-590664 recovered outside control limits for the following analytes: Vinyl chloride and Dichlorodifluoromethane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 490-590475 recovered outside control limits for the following analytes: 1,2-Dichloroethane.

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

GC/MS Semi VOA

Method(s) 8270D SIM ID: The 1,4-Dioxane result reported for samples SR-101 (480-152070-1), SR-106 (480-152070-2), SR-108 (480-152143-1), SR-104 (480-152143-2), SR-001 (480-152143-3), and SR-003 (480-152143-5) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

Method(s) 8270D SIM ID: The following samples were diluted to bring the concentration of target analytes within the calibration range: SR-106 (480-152070-2), SR-104 (480-152143-2) and SR-001 (480-152143-3). Elevated reporting limits (RLs) are provided.

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

HPLC/IC

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SR-101 (480-152070-1) and SR-106 (480-152070-2). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples were diluted due to the abundance of non-target analytes: SR-101 (480-152070-1) and SR-106 (480-152070-2), SR-108 (480-152143-1), SR-001 (480-152143-3) and SR-003 (480-152143-5). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following sample was diluted due to the nature of the sample matrix: SR-104 (480-152143-2). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

Method(s) SM 5210B: The following samples were analyzed outside of analytical holding time due to laboratory error: SR-106 (480-152070-2), SR-002 (480-152143-4) and SR-003 (480-152143-5).. The client was notified and data were requested to be reported.

Method(s) SM 5210B: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: SR-108 (480-152143-1), SR-002 (480-152143-4) and SR-003 (480-152143-5). The reporting limits (RLs) have been adjusted

proportionately.

Method(s) SM 5210B: The glucose-glutamic acid standard recovered low outside the recovery limits specified in the method in batch 480-468872 .

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

Organic Prep

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

VOA Prep

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

Analy Batch No.: 582618 Job No.: 480-152070-1 Lab Name: Eurofins TestAmerica, Nashville

SDG No.:

Heated Purge: (Y/N) N Calibration ID: 74626 Calibration End Date: 03/21/2019 23:20 ID: 0.18 (mm) GC Column: RTX-624 Calibration Start Date: 03/21/2019 19:50 Instrument ID: HP33

ANALYTE			RRF			CURVE		COEFFICIENT	ENT	#	MIN RRF	&RSD #	MAX	R^2	# MIN	R^2
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	TYPE	m	M1	M2	1			&RSD	OR COD	e R	OR COD
	TAT 6	LVL 7		LVL 9												
Acetone	+++++	0.0222	0.0238	0.0192	0.0199	Ave		0.0211			0.0100	8.0	20.0			
Iodomethane	+++++	+++++		0.2172	0.2849	Lin1	-0.402	0.3514			0.1000			0.9980	0	0.9900
Isopropyl alcohol	++++	+++++	0.0128	0.0085	0.0110	Ave		0.0111	W.	-	0.0010	11.7	20.0			0
Carbon disulfide	0.9298	0.8997	0.8651	0.7819	0.8036	Ave		0.8413			0.1000	5.9	20.0			(3
3-Chloro-1-propene	0.2701	0.2941	0.2367	0.2533	0.2684	Ave		0.2696			0.1000	8.4	20.0			
Methyl acetate	+++++	0.1837		0.1685	0.1701	Ave		0.1727			0.1000	9.5	20.0			
Acetonitrile	+++++	0.0422	0.0372	0.0394	0.0368	Ave		0.0404		-	0.0010	6.9	20.0			
Methylene Chloride	0.5909	0.4311	0.3709	0.3085	0.3044	Lin2 (0.1452	0.2951			0.0100			0.9990	0	0.9900
2-Methyl-2-propanol	1.2277	1.2724	1.1379	1.2345	1.3450	Ave		1.2612			0.0010	7.4	20.0			
Methyl tert-butyl ether	0.7056	0.8648		0.8322	0.8450	Ave		0.8347			0.1000	6.2	20.0			
trans-1,2-Dichloroethene	0.4456	0.4226	0.4281	0.4172	0.4179	Ave		0.4344			0.1000	3.2	20.0			
Acrylonitrile	0.1037	0.0849		0.0918	0.0920	Ave		0.0943			0.0100	5.8	20.0			
n-Hexane	0.4721	0.4474		0.4024	0.3676	Ave		0.4138			0.1000	7.4	20.0			
	0.5282	0.4839	0.5326	0.5718	0.5336	Ave		0.5506			0.2000	6.1	20.0			
Isopropyl ether	1.0422	1.0220	1.0003	0.9626	0.9532	Ave		0.9843			0.1000	3.3	20.0			
Vinyl acetate	+++++	0.0640	0.0535	0.0658	0.0636	Ave		0.0639		*	0.1000	8.2	20.0			
3-buta	0.5289	0.5071	0.5086	0.4781	0.4703	Ave		0.5060			0.1000	4.3	20.0			
Tert-butyl ethyl ether	0.9328	0.9099	0.9441	0.9116	0.9281	Ave		0.9194			0.1000	1.4	20.0			
2,2-Dichloropropane	0.5275	0.5255	0.5364	0.5008	0.4946	Ave		0.5110			0.1000	2.9	20.0			
cis-1,2-Dichloroethene	0.3508	0.3178	0.3285	0.3144	0.3304 Ave	Ave		0.3284			0.1000	3.3	20.0			

Lab Name: Eurofins TestAmerica, Nashville

Job No.: 480-152070-1

Analy Batch No.: 582618

Instrument ID: HP33

GC Column: RTX-624

Heated Purge: (Y/N) N ID: 0.18 (mm)

Calibration ID: 74626

Calibration Start Date: 03/21/2019 19:50

Calibration End Date: 03/21/2019 23:20

ANALYTE			RRF			CURVE		COEFFICIENT	ENT	# MIN	MIN RRF &	&RSD #	-	R^2	# MIN	MIN R^2
	LWL 1	LVL 2	LVL 3	LVL 4	LVL 5	TYPE	m	M1	M2				*RSD	OR COD	OR	OR COD
	TAT 6	LVL 7	LVL 8	IVL 9				(
2-Butanone (MEK)	0.0105	0.0249	0.0242	0.0245	0.0284	Lin2	-0.042	0.0290		0.	0.0100			0.9920	0	0.9900
D+h1 0004111	0.0266	0.0282	0.0298	0.0313												
ברוואד מכפרמופ	0.0287	0.0390	0.0304	0.0297	0.0288	Ave		0.0310		•	0.0100	11.0	20.0			
Propionitrile	0.0294	0.0309	0.0293	0.0326	0.0338	Ave		0.0323		0	0.0100	6.0	20.0			
	0.0331	0.0330	0.0336	0.0347	$\overline{}$											
Chlorobromomethane	0.1882	0.1918		0.1886	0.1892	Ave		0.1901		0	0.1000	1.6	20.0		_	
	0.1847	0.1900		0.1953												
rectangutotutan	0.0965	0.0941	0.1014	0.0929	0.0892	Ave		0.1004			0.0500	8.7	20.0			
Methacrylonitrile	0.1452	0.1474	0.1536	0.1587	0.1590	Ave		0.1598		0	0.1000	0.9	20.0			
	0.1671	0.1646	0.1725	0.1696						,						
Chloroform	0.5801	0.5508	0.5424	0.5183	0.5174	Ave		0.5400		0	0.2000	3.7	20.0		-	
	0.5275	0.5275	0.5425	0.5535									*		-	
Cyclohexane	0.5421	0.6132	0.5894	0.5424	0.5279	Ave		0.5664		o.	0.1000	4.9	20.0			
	0.5898	0.5732	0.5603	0.5596	$\overline{}$											
1,1,1-Trichloroethane	0.5027	0.5060	0.4938	0.4782	0.4781	Ave		0.4970			0.1000	2.4	20.0			Ī
Carbon tetrachloride	0 4035	42000	00000	0.3003	4164	1		0007		-					1	
	0.4409	0.4580	0.4268	0.4331	0.4⊥04 0.4⊥04	Ave		0.4282			0.1000	٦.,	20.0		_	
1,1-Dichloropropene	0.4278	╀	0.4496	0.4154	0.4307 AVP	Ave		0 4413			1000	2 2	200		+	
	0.4600	_	0.4423	0.4437) !				: 	-	7.	0.0			
Isobutyl alcohol	+++++	-	0900.0	0.0074	0.0084	Ave		0.0075		0	0.0010	11.2	20.0			
	0.0079	0.0068	0.0078	0.0082												
Benzene	1.1726	1.2389	1.1821	1.2111	1.2262	Ave		1.2108		o	0.5000	2.0	20.0			
t-Amvl alcohol	6020	0 0192	0 0155	0 0170	07.10	0440		0 0175		•	0,00		0		+	
	0.0167	0.0163	0.0171	0.0179				0.10.0			0100	ر. د	0.0	-		
1,2-Dichloroethane	0.4290	0.4470	0.4045	0.3854	0.3820	Ave		0.4080		.0	0.1000	5.2	20.0			
- 1	0.3954	0.3954	0.4158	0.4175												
Tert-amy1 methyl ether	0.9561	1,0616	0.9484	0.9748	1.0062	Ave		0.9807			0.1000	3.8	20.0			
	0.9357	0.9637	0.9888	0.9909												-
n-Heptane	+++++	0.4189		0.4189	0.3878	Ave		0.3923		0	0.1000	4.4	20.0			
	0.3855	0.3779	0.3920	0.3732											-	٠
Trichloroethene	0.2760	0.3220		0.2940	0.3128	Ave		0.3028		0	0.2000	4.8	20.0			
	0.2898	0.3184	0.3086	0.3036												
n-Butanol	+++++	++++++	0.0027	0.0028	0.0032	Ave		0.0031		o.	0.00.0	13.4	20.0			
	0.0026	0.0033	0.0036	0.0037												
Ethyl acrylate	++++	0.6648		0.6148	0.6497 Ave	Ave		0.6730		0	0.1000	5.3	20.0			
	0.6823	0.7055	0.6981	0.7220												

Analy Batch No.: 545531 Job No.: 480-152070-1 Lab Name: Eurofins TestAmerica, Nashville

ID: 0.18(mm) GC Column: DB-624 Calibration Start Date: 09/26/2018 11:45 Instrument ID: HP34 SDG No.:

Calibration End Date: 09/26/2018 15:18

Calibration ID: 72791

Heated Purge: (Y/N) N

			RRF			CURVE		COEFFICIENT	INI.	# WIN	RRF	&RSD #	MAX	R^2	# WIN	MIN R^2
	LVL 1	LVI. 2	LVI. 3	LVL 4	LVL 5	TYPE	Ø	M1	M2					OR COD	g	ов сор
1 1 10 - 11	2		7 7 7	7 7 7								7				
1,1-Dichioroethene	0.2019	0.2055	0.2388	0.2440	0.2102	Ave		0.2206		· -	0.1000	8.7	20.0		_	
Acetone	0.0200	⊥	0 0207	1000	0 0163	Arro		01.10		-			0			
	0.0170		0.0163	0.0176	2	۵ د			\	; —	0.0100	y.	20.0			
lsopropyl alcohol	0.0097	0.0128	0.0112	0.0116	0.0095	Ave	,	0.0103		0	0.0010	13.2	20.0			
Iodomethane	0.2706		0.1436	0.2237	0.2262	Lin1	-0.540	0.3316		.0	0.1000			0.9980	0	9900
Carbon disulfide	0.7806	0.7474	0.7335	0.7538	0.6553	Ave		0.7079		0	0.1000	6.8	20.0			
Acetonitrile	0.0715		0.0732	0.0758	0.0628	Ave		0.0656	_	0	0.0010	10.7	20.0			
3-Chloro-1-propene	0.1488		0.1574	0.2120	0.1626	Ave		0.1795			0.1000	13.0	20.0		<u> </u>	
Methyl acetate	0.1725		0.1850	0.2013	0.1545	Ave		0.1667		0	0.1000 1	13.0	20.0			
Methylene Chloride	+++++		0.3295	0.3185	0.2699	Lin2	0.1255	0.2549		0.	0.0100	-		0.9920	0.0	0.9900
2-Methyl-2-propanol	0.8072		0.9285	0.9348	0.8987	Ave		0.8810		0	0.0010	6.8	20.0			
Acrylonitrile	0.0850	0.0876	0.0913	0.0878	0.0837	Ave		0.0843		0	0.0100	5.8	20.0			
Methyl tert-butyl ether	0.7045	0.6947	0.6882	0.7420	0.6908	Ave		0.6862	120	0	0.1000	5.1	20.0			
trans-1,2-Dichloroethene	0.3053		0.3715	0.3348	0.3130	Ave		0.3169		0	0.1000	8.0	20.0			
n-Hexane	0.3757	0.4100	0.4242	0.3978	0.3881	Ave		0.3749		0	0.1000	10.2	20.0			
	0.3794	0.4667	0.5059	0.4434	0.4730	Ave		0.4268		0	0.2000	12.1	20.0		-	
	+++++	+++++	0.0510	0.0575	0.0534	Ave		0.0507		*	0.1000	10.0	20.0			
isopropyl ether	0.8035	0.8667	0.8395	0.7826	0.8699	Ave		0.7666		0	0.1000	11.9	20.0			
	0.4465	0.4477	0.4372	0.4062	0.4168	Ave		0.3916		0	0.1000 13	3.3	20.0			
Tert-butyl ethyl ether	0.6913	0.7765	0.8088	0.7853	0.8004	Ave		0.7472		0	0.1000	8.7	20.0			
cis-1,2-Dichloroethene	0.2789	0.2979	0.2954	0.2906	0.3056	Ave		0.2851	a 9	0	0.1000	8.2	20.0		-	

20.0

12.8

0.0010

0.0059

Ave

0.0056

0.0055

0.3169

9.9

0.2000

FORM VI GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA CURVE EVALUATION

545531 Analy Batch No.: No.: 480-152070-1 Job Eurofins TestAmerica, Nashville **HP34** iD: Instrument Lab Name: SDG No.

R^2 COD 0.9900 MIN OR (R^2 OR COD 0.9960 Z 72791 (X/N)20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 MAX %RSD ID: Purge: 12.6 Calibration &RSD 11.9 10.8 9.9 4.6 2.2 10.5 9.8 2.8 9.6 6.8 4.0 5.4 6.7 9.7 0.0100 0.1000 Heated RRF 0.1000 0.0100 0.1000 0.1000 0.0100 0.1000 0.2000 0.0500 0.1000 0.1000 0.1000 0.5000 0.1000 0.1000 0.0010 0.0010 MIN # Æ 15:18 COEFFICIENT 0.0252 0.0238 0.0315 0.1431 0.4354 0.3663 0.4043 0.1795 0.3994 0.3436 0.4234 0.18 (mm) 0.0561 0.4617 0.0091 0.0152 1.1449 0.3806 0.7921 Ξ Date: 09/26/2018 0.1623 М ID: CURVE 0.0744 Linl 0.0276 Ave Ave Ave 0.4811 Ave Ave Ave 0.3987 Ave 0.3702 Ave 0.3520 Ave Ave Ave Ave Ave Ave Ave 0.4687 Ave 0.0341 0.3999 0.1528 0.1959 0.0148 0.0091 1.1017 0.4163 DB-624 End IM 0.4059 0.4069 0.4538 0.3515 0.3515 0.3568 0.0093 0.0085 1.1146 1.0790 0.3653 0.3563 0.8125 Calibration 0.0324 0.1852 0.4471 0.0721 0.4052 0.0163 0.0266 0.1421 0.1416 Column: 0.0322 0.0253 0.1522 0.1174 0.1610 0.0828 0.0530 0.4181 0.3828 0.4442 0.3457 0.0108 0.0080 0.4897 0.0254 0.3354 0.0238 0.0208 0.0149 1.1220 0.8024 0.3814 0.0156 1.1980 0.1837 0.4060 0.3785 ကေထ LVL RE ပ္ပ 0.3307 0.0211 0.0334 0.0263 0.1563 0.1251 0.1828 0.4246 0.0561 0.3846 0.4037 0.3211 0.3570 0.0097 0.0085 0.0147 0.4432 0.3584 0.4094 0.5106 1.1249 1.122511:45 0.0347 0.0340 0.1420 0.1583 0.1633 0.4149 0.0683 0.3980 0.4085 0.5014 0.3391 0.2683 0.0093 0.0140 0.0159 1.2833 1.1585 0.3816 0.4108 0.0212 0.0287 0.7734 0.4073 0.45020.0268 ++++ 09/26/2018 Calibration Start Date: ANALYTE Tert-amyl methyl ether 1, 1, 1-Trichloroethane Carbon tetrachloride 2,2-Dichloropropane 1,1-Dichloropropene Chlorobromomethane 1,2-Dichloroethane Methacrylonitrile 2-Butanone (MEK) Isobutyl alcohol Tetrahydrofuran Ethyl acetate t-Amyl alcohol Propionitrile Cyclohexane Chloroform n-Heptane Benzene

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

Trichloroethene

n-Butano]

Analy Batch No.: 582279 Job No.: 480-152070-1 Lab Name: Eurofins TestAmerica, Nashville SDG No.:

ID: 0.18 (mm) GC Column: ZB-624 Calibration Start Date: 03/20/2019 16:25 Instrument ID: HP39

Calibration End Date: 03/20/2019 20:17

Calibration ID: 74622

Heated Purge: (Y/N) N

		3												
ANALYTE			RRF			CURVE	υ	COEFFICIENT	#	MIN RRF	&RSD	# MAX	R^2 #	MIN R^2
		LVL 2	LVL 3	4		TYPE	Д	M M	M2			&RSD	OR COD	OR COD
	IVI 6	LVL 7	LVL 8	LVL 9	LVL 10									
1,1-Dichloroethene	0.3314	0.2562	0.2808	0.3348	$\overline{}$	Ave		0.3093		0.1000	8.0	20.0		
Acetone	111111	0.3132	0.3036	0.3233	0.32/4						-+			
	0.0135	0.0120	0.0129	0.0131		ν >	.لي	0.0137	,	0010.0	11.0	20.0	-	
Iodomethane	0.4798	0.3834	0.4181	0.5539	+	Ave		0.5013		0.1000	11.5	20.0		
Tannami = lackal	0.5514	0.5268	0.5343	0.5275	-									
rachiopy: arconor	0.0068	0.0080	0.0083	0.0078	0.0077	Ave		0.0071		0.0010	11.5	20.0		
Carbon disulfide	1.1293	0.7583	0.8423	0.9666	-	Lin1 0	0.1920	0.7766		0.1000			0.9970	0.9900
3-Chloro-1-propene	7150.0	20 +	0.7733	0.029.0	$\overline{}$	1,01	117	27.70						
	0.2623	0.2963	0.3604	0.3529				7/15		0.1000			0.9940	0066.0
Methyl acetate	+++++	0.1245	0.1326	0.1321	0.1159 7	Ave		0.1132		0.1000	12.3	20.0		
Acetonitrile	++++	‡ ‡ ‡ ‡	0.0110	0.0109	+	Ave		0.0109		0.0010	5.8	20.0		
10 mm	0.0103	0.0105	0.0111	0.0113	0.0121									
Metnylene Chloride	+++++	+++++	0.4540	0.4429	0.3947 1	Ave		0.3762		0.0100	13.2	20.0		
2-Methyl-2-propanol	++++	1.1492	1.3006	1.8117	+-	Ave		1.4266		0.0010	14.6	20.0		
tout but	1.4140	1.36/3	1.5082	1.5951	+++++									
Metnyi tert-butyi ether	0.8586	0.7401	0.7278	0.8391	_	Ave		0.7291		0.1000	9.8	20.0		
trans-1,2-Dichloroethene	0 5915	0.075	0 3036	6699	_			27.7			\rightarrow			
	0.4773	0.4516	0.4452	0.4636	0.4702	Ave		0.4/48		0.1000	11.2	20.0		
Acrylonitrile	0.0667	0.0571	0.0565	0.0642	1 .	Ave		0.0592		0.0100	9.9	20.0		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0604	0.0570	0.0549	0.0569	\rightarrow									
ii nevalle	0.4821	0.3344	0.4064	0.4741	0.4213 1	Ave		0.4269		0.1000	9.6	20.0		
Isopropyl ether	1.2988	1.0389	0.9544	1.0860	+	Lin2 0	0.1878 (0.9036		1000			0000	0000
	0.9634	0.8897	0.8671	0.8712))					0.66.0	00000
Vinyl acetate	0.0708	0.0496	0.0528	0.0608	+	Ave		0.0557	*	0.1000	11.2	20.0		
	0.0557	0.0523	0.0497	_	0.0570									
I, I-Dichloroethane	0.6896	0.5741	0.6001	_		Ave		0.6320	-	0.2000	5.3	20.0		
	0.6564	0.6237	0.6071	0.6326	0.6364									
2-Chloro-1,3-butadiene	0.6475	0.5623	0.5167	0.6059	_	Ave		0.5391		0.1000	9.3	20.0		
14.4	0.5204	0.5038	0.5024		0.5110									
reir-burgi etngr	1.0219	0.9278	0.8713	1.0377	0.9050	Ave		0.9019		0.1000	8.4	20.0		
2,2-Dichloropropane	0.7549	0.5071	0.5260	+-	+	Lin1 0	0.0287	0.5617		0.1000			0.9990	0.9900
	0.5576	0.5482	0.5387		0.5691		_			1			,	,

Analy Batch No.: 582279 ID: 0.18 (mm) Job No.: 480-152070-1 GC Column: ZB-624 Lab Name: Eurofins TestAmerica, Nashville Instrument ID: HP39 SDG No.:

Heated Purge: (Y/N) N Calibration ID: 74622 Calibration End Date: 03/20/2019 20:17 16:25 Calibration Start Date: 03/20/2019

amy retike														
T T TRANS			RRF			CURVE	-	COEFFICIENT	IN	# MIN RRF	&RSD	# MAX	R^2 #	_
	IVL 1	LVL 2 LVL 7	LVL 3	LVL 4 LVL 9	LVL 5 LVL 10	AAXI.	В	Æ	M2			\$RSD	OR COD	OR COD
cis-1,2-Dichloroethene	0.5311	0.3750	0.4166	0.5024	1	Ave		0.4322		0.1000	0 11.2	20.0		
Ethyl acetate	+++++	0.0232	0.0161	0.0253	0.0205 2	Ave		0.0205		0010	12 0	000		
	0.0208	_ 1	0.0185	0.0199		•		(-		70.0		
z-bucanone (MEK)	0.0195	0.0206	0.0213	0.0238	0.0211	Ave		0.0200		0.0100	8.9	20.0		
Propionitrile	0.0216		0.0193	0.0250	_	Ave		0.0221		0.0100	7.0	20.0		
Methacrylonitrile	0.1335	0.1124	0.1034	0.1240		Ave		0.1082		0.1000	11.6	20.0		
Chlorobromoethane	0.2459		0.2314	0.2806	0.2505 A	Ave		0.2385		0.1000	7.3	20.0		
Tetrahydrofuran	+++++		0.0642	0.0698	$\overline{}$	Ave		0.0603		0.0500	9.5	20.0		
Chloroform	0.7400	0.5641	0.6466	0.7226		Ave		0.6391		0.2000	8.8	20.0		
1,1,1-Trichloroethane	0.7117	0.5730	0.5986	0.6084	_	Ave		0.5930		0.1000	8.6	20.0		
Cyclohexane	+++++	0.5027	0.5403	0.5907		Ave		0.5493		0.1000	5.0	20.0		
Carbon tetrachloride	0.6350	0.4706	0.4710	0.5637	_	Ave		0.5348		0.1000	8.9	20.0		
1,1-Dichloropropene	0.6086	_L.	0.4797	0.5304	0.4877 A	Ave		0.5015		0.1000	8.1	20.0		
	0.0134		0.0115	0.0124	+	Ave	1	0.0112		0.0010	6.6	20.0		
t-Amyl alcohol	0.0148	0.0112	0.0120	0.0141		Ave		0.0123		0.0010	10.7	20.0		
Benzene	1.9672	1.5166	1.5266	1.6966	+	Ave		1.5278		0.5000	12.6	20.0		
Tert-amyl methyl ether	1.1808	+	0.8692	0.9969	_	Ave		0.9116		0.1000	11.8	20.0		
1,2-Dichloroethane	0.5608	-	0.3798	0.4388	+	Lin2 0	0.0763	0.3815		0.1000			0.9940	0066.0
n-neprane	+++++	0.3226	0.2751	0.3722	0.3438 A	Ave	-	0.3461		0.1000	6.0	20.0		
n-buranol	+++++	0.0030		0.0037	0.0032 A	Ave		0.0032		0.0010	6.7	20.0		
Trichloroethene	0.5580	0.4323	0.4325	0.4984	0.4500 A	Ave		0.4563		0.2000	9.1	20.0		

FORM V

GC/MS VOA INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1

SDG No.:

Lab File ID: 04251901.D BFB Injection Date: 04/25/2019

Instrument ID: HP34 BFB Injection Time: 13:55

Analysis Batch No.: 590455

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.0
75	30.0 - 60.0 % of mass 95	46.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.7
173	Less than 2.0 % of mass 174	0.5 (0.5) 1
174	50.0 - 120.00 % of mass 95	100.0
175	5.0 - 9.0 % of mass 174	8.6 (8.6) 1
176	95.0 - 101.0 % of mass 174	98.3 (98.3) 1
177	5.0 - 9.0 % of mass 176	6.2 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-590455/2	04251902.D	04/25/2019	14:22
	LCS 490-590455/3	04251903.D	04/25/2019	14:48
	LCSD 490-590455/4	04251904.D	04/25/2019	15:14
4	MB 490-590455/6	04251906.D	04/25/2019	16:07
TB-20190418	480-152143-6	04251912.D	04/25/2019	18:44
SR-001	480-152143-3	04251914.D	04/25/2019	19:36
SR-108	480-152143-1	04251915.D	04/25/2019	20:03
SR-002	480-152143-4	04251916.D	04/25/2019	20:29

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1

SDG No.:

Lab Sample ID: CCVIS 490-590455/2

Calibration Date: 04/25/2019 14:22

Calib Start Date: 09/26/2018 11:45

Instrument ID: HP34

GC Column: DB-624

ID: 0.18 (mm)

Calib End Date: 09/26/2018 15:18

Lab File ID: 04251902.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrahydrofuran	Lin1		0.0576	0.0500	38.2	40.0	-4.5	20.0
1,1,1-Trichloroethane	Ave	0.3994	0.4112	0.1000	20.6	20.0	2.9	20.0
Cyclohexane	Ave	0.4617	0.4094	0.1000	17.7	20.0	-11.3	20.0
1,1-Dichloropropene	Ave	0.3663	0.3727	0.1000	20.4	20.0	1.8	20.0
Carbon tetrachloride	Ave	0.3436	0.3691	0.1000	21.5	20.0	7.4	20.0
Isobutyl alcohol	Ave	0.0091	0.0056	0.0010	308	500	-38.5*	20.0
t-Amyl alcohol	Ave	0.0152	0.0099	0.0010	131	200	-34.6*	20.0
1,2-Dichloroethane	Ave	0.3806	0.3283	0.1000	17.2	20.0	-13.8	20.0
Benzene	Ave	1.145	1.020	0.5000	17.8	20.0	-10.9	20.0
Tert-amyl methyl ether	Ave	0.7921	0.6071	0.1000	15.3	20.0	-23.4*	20.0
n-Heptane	Ave	0.4234	0.2117	0.1000	10.0	20.0	-50.0*	20.0
n-Butanol	Ave	0.0059	0.0034	0.0010	288	500	-42.4*	20.0
Trichloroethene	Ave	0.3154	0.3229	0.2000	20.5	20.0	2.4	20.0
Ethyl acrylate	Ave	0.3368	0.2724	0.1000	16.2	20.0	-19.1	20.0
Methylcyclohexane	Ave	0.5279	0.4028	0.1000	15.3	20.0	C-23.7*	
1,2-Dichloropropane	Ave	0.2904	0.2492	0.1000	17.2	20.0	-14.2	20.0
Methyl methacrylate	Ave	0.2508	0.1982	0.1000	31.6	40.0	-21.0*	20.0
Dibromomethane	Ave	0.1655	0.1481	0.0500	17.9	20.0	-10.5	20.0
1,4-Dioxane	Ave	0.7410	0.7736	0.0010	418	400	4.4	20.0
Bromodichloromethane	Ave	0.3485	0.3094	0.2000	17.8	20.0	-11.2	20.0
2-Nitropropane	Ave	0.0772	0.0600	0.0100	31.1	40.0	-22.3*	20.0
2-Chloroethyl vinyl ether	Ave	0.1937	0.1720	0.1000	17.8	20.0	-11.2	20.0
cis-1,3-Dichloropropene	Ave	0.4827	0.4673	0.2000	19.4	20.0	-3.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1047	0.0965	0.0500	92.2	100	-7.8	20.0
Toluene	Ave	1.397	1.367	0.4000	19.6	20.0	-2.2	20.0
trans-1,3-Dichloropropene	Ave	0.4361	0.4081	0.0100	18.7	20.0	-6.4	20.0
Ethyl methacrylate	Ave	0.3866	0.3374	0.1000	17.5	20.0	-12.7	20.0
1,1,2-Trichloroethane	Ave	0.2870	0.2798	0.1000	19.5	20.0	-2.5	20.0
Tetrachloroethene	Ave	0.4072	0.4326	0.2000	21.2	20.0	6.2	20.0
1,3-Dichloropropane	Ave	0.5007	0.4738	0.1000	18.9	20.0	-5.4	20.0
2-Hexanone	Ave	0.1036	0.0894	0.0500	86.3	100	-13.7	20.0
n-Butyl acetate	Ave	0.4812	0.3180	0.1000	13.2	20.0	-33.9*	20.0
Dibromochloromethane	Lin2		0.2311	0.1000	19.5	20.0	-2.4	20.0
1,2-Dibromoethane	Ave	0.2886	0.2822	0.1000	19.6	20.0	-2.2	20.0
1-Chlorohexane	Ave	0.5012	0.3407	0.1000	13.6	20.0	-32.0*	20.0
Chlorobenzene	Ave	1.023	0.9228	0.5000	18.0	20.0	-9.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3284	0.3204	0.1000	19.5	20.0	-2.4	20.0
Ethylbenzene	Ave	1.692	1.466	0.1000	17.3	20.0	-13.3	20.0
m-Xylene & p-Xylene	Ave	1.302	1.129	0.1000	17.4	20.0	-13.2	20.0
o-Xylene	Ave	1.357	1.131	0.3000	16.7	20.0	-16.6	20.0
Styrene	Ave	1.173	0.9643	0.3000	16.4	20.0	-17.8	20.0

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1

SDG No.:

Lab Sample ID: CCVIS 490-590455/2

Calibration Date: 04/25/2019 14:22

Instrument ID: HP34

Calib Start Date: 09/26/2018 11:45

GC Column: DB-624 ID: 0.18 (mm)

Calib End Date: 09/26/2018 15:18

Lab File ID: 04251902.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	₹D	MAX %D
Propene	Ave	0.2344	0.2407	0.1000	20.5	20.0	2.7	20.0
Dichlorodifluoromethane	Ave	0.3067	0.3164	0.1000	20.6	20.0	3.2	20.0
Chloromethane	Ave	0.3180	0.3539	0.1000	22.3	20.0	11.3	20.0
Vinyl chloride	Ave	0.2852	0.3140	0.1000	22.0	20.0	10.1	20.0
Butadiene	Ave	0.2460	0.2934	0.1000	23.9	20.0	19.3	20.0
Bromomethane	Ave	0.1039	0.1772	0.1000	34.1	20.0	(70.63	20.0
Chloroethane	Lin1		0.1814	0.1000	21.3	20.0	6.5	20.0
Dichlorofluoromethane	Ave	0.3908	0.4409	0.1000	22.6	20.0	12.8	20.0
Trichlorofluoromethane	Ave	0.3578	0.4289	0.1000	24.0	20.0	19.9	20.0
Ethanol	Ave	0.0006	0.0003*	0.0010	434	800	-45.8*	20.0
Ethyl ether	Ave	0.1866	0.1710	0.1000	18.3	20.0	-8.3	20.0
Acrolein	Ave	0.0336	0.0276	0.0100	40.6	49.4	-17.9	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2351	0.2506	0.1000	21.3	20.0	6.6	20.0
1,1-Dichloroethene	Ave	0.2206	0.2606	0.1000	23.6	20.0	18.1	20.0
Acetone	Ave	0.0179	0.0183	0.0100	102	100	2.1	20.0
Isopropyl alcohol	Ave	0.0103	0.0074	0.0010	144	200	-28.2*	20.0
Iodomethane	Linl		0.4153	0.1000	26.7	20.0	33.4*	20.0
Carbon disulfide	Ave	0.7079	0.6852	0.1000	19.4	20.0	-3.2	20.0
3-Chloro-1-propene	Ave	0.1795	0.2440	0.1000	27.2	20.0	35.9*	20.0
Acetonitrile	Ave	0.0656	0.0605	0.0010	185	200	-7.7	20.0
Methyl acetate	Ave	0.1667	0.1504	0.1000	36.1	40.0	-9.8	20.0
Methylene Chloride	Lin2		0.2653	0.0100	20.3	20.0	1.6	20.0
2-Methyl-2-propanol	Ave	0.8810	0.9413	0.0010	214	200	6.8	20.0
Acrylonitrile	Ave	0.0843	0.0808	0.0100	192	200	-4.2	20.0
Methyl tert-butyl ether	Ave	0.6862	0.6123	0.1000	17.8	20.0	-10.8	20.0
trans-1,2-Dichloroethene	Ave	0.3169	0.3591	0.1000	22.7	20.0	13.3	20.0
n-Hexane	Ave	0.3749	0.2957	0.1000	15.8	20.0	-21.1*	20.0
1,1-Dichloroethane	Ave	0.4268	0.4623	0.2000	21.7	20.0	8.3	20.0
Vinyl acetate	Ave	0.0507	0.0402*	0.1000	31.7	40.0	-20.7*	20.0
Isopropyl ether	Ave	0.7666	0.6749	0.1000	17.6	20.0	-12.0	20.0
2-Chloro-1,3-butadiene	Ave	0.3916	0.3602	0.1000	18.4	20.0	-8.0	20.0
Tert-butyl ethyl ether	Ave	0.7472	0.6267	0.1000	16.8	20.0	-16.1	20.0
cis-1,2-Dichloroethene	Ave	0.2851	0.3007	0.1000	21.1	20.0	5.5	20.0
2,2-Dichloropropane	Ave	0.4043	0.3663	0.1000	18.1	20.0	-9.4	20.0
2-Butanone (MEK)	Ave	0.0252	0.0244	0.0100	97.1	100	-2.9	20.0
Ethyl acetate	Ave	0.0238	0.0225	0.0100	37.9	40.0	-5.3	20.0
Propionitrile	Ave	0.0315	0.0300	0.0100	190	200	-5.0	20.0
Methacrylonitrile	Ave	0.1431	0.1278	0.1000	179	200	-10.7	20.0
Chlorobromomethane	Ave	0.1795	0.1902	0.1000	21.2	20.0	6.0	20.0
Chloroform	Ave	0.4354	0.4356	0.2000	20.0	20.0	0.0	20.0

FORM V

GC/MS VOA INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1

SDG No.:

Lab File ID: 042519-01.D BFB Injection Date: 04/25/2019

Instrument ID: HP39 BFB Injection Time: 12:44

Analysis Batch No.: 590475

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.2
75	30.0 - 60.0 % of mass 95	49.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.1
173	Less than 2.0 % of mass 174	0.7 (0.7) 1
174	50.0 - 120.00 % of mass 95	103.1
175	5.0 - 9.0 % of mass 174	7.9 (7.7) 1
176	95.0 - 101.0 % of mass 174	100.0 (97.0) 1
177	5.0 - 9.0 % of mass 176	6.6 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-590475/2	042519-02.D	04/25/2019	13:10
	LCS 490-590475/3	042519-03.D	04/25/2019	13:36
	LCSD 490-590475/4	042519-04.D	04/25/2019	14:02
	MB 490-590475/8	042519-08.D	04/25/2019	15:46
TB-20190417	480-152070-3	042519-11.D	04/25/2019	17:04
SR-101	480-152070-1	042519-16.D	04/25/2019	19:14
SR-106	480-152070-2	042519-19.D	04/25/2019	20:32
SR-106 MS	480-152070-2 MS	042519-27.D	04/25/2019	23:59
SR-106 MSD	480-152070-2 MSD	042519-28.D	04/26/2019	00:25

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1

SDG No.:

Lab Sample ID: CCVIS 490-590475/2 Calibration Date: 04/25/2019 13:10

Instrument ID: HP39 Calib Start Date: 03/20/2019 16:25

GC Column: ZB-624 ID: 0.18 (mm) Calib End Date: 03/20/2019 20:17

Lab File ID: 042519-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propene	Ave	0.3476	0.1756	0.1000	10.1	20.0	-49.5*	20.0
Dichlorodifluoromethane	Ave	0.4093	0.5305	0.1000	25.9	20.0	29.6*	20.0
Chloromethane	Ave	0.4315	0.3636	0.1000	16.9	20.0	-15.7	20.0
Vinyl chloride	Ave	0.4196	0.3703	0.1000	17.6	20.0	-11.8	20.0
Butadiene	Ave	0.3829	0.3341	0.1000	17.4	20.0	-12.8	20.0
Bromomethane	Ave	0.2325	0.2321	0.1000	20.0	20.0	-0.2	20.0
Chloroethane	Lin2		0.2237	0.1000	17.8	20.0	-10.9	20.0
Dichlorofluoromethane	Ave	0.6262	0.5652	0.1000	18.1	20.0	-9.7	20.0
Trichlorofluoromethane	Ave	0.5901	0.6868	0.1000	23.3	20.0	16.4	20.0
Ethanol	Ave	0.0005	0.0003*	0.0010	413	800	-48.4*	20.0
Ethyl ether	Ave	0.2020	0.1947	0.1000	19.3	20.0	-3.6	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2837	0.2949	0.1000	20.8	20.0	4.0	20.0
Acrolein	Ave	0.0216	0.0178	0.0100	40.6	49.4	-17.8	20.0
1,1-Dichloroethene	Ave	0.3093	0.2996	0.1000	19.4	20.0	-3.1	20.0
Acetone	Ave	0.0137	0.0118	0.0100	85.8	100	-14.2	20.0
Iodomethane	Ave	0.5013	0.5486	0.1000	21.9	20.0	9.4	20.0
Isopropyl alcohol	Ave	0.0071	0.0039	0.0010	109	200	-45.6*	20.0
Carbon disulfide	Linl		0.8345	0.1000	21.2	20.0	6.2	20.0
3-Chloro-1-propene	Linl		0.2580	0.1000	16.0	20.0	-19.8	20.0
Methyl acetate	Ave	0.1132	0.0897*	0.1000	31.7	40.0	-20.7*	20.0
Acetonitrile	Ave	0.0109	0.0067	0.0010	124	200	-38.2*	20.0
Methylene Chloride	Ave	0.3762	0.3365	0.0100	17.9	20.0	-10.6	20.0
2-Methyl-2-propanol	Ave	1.427	1.243	0.0010	174	200	-12.8	20.0
Methyl tert-butyl ether	Ave	0.7291	0.7525	0.1000	20.6	20.0	3.2	20.0
trans-1,2-Dichloroethene	Ave	0.4748	0.4270	0.1000	18.0	20.0	-10.1	20.0
Acrylonitrile	Ave	0.0592	0.0509	0.0100	172	200	-14.0	20.0
n-Hexane	Ave	0.4269	0.3547	0.1000	16.6	20.0	-16.9	20.0
Isopropyl ether	Lin2		0.7884	0.1000	17.2	20.0	-13.8	20.0
1,1-Dichloroethane	Ave	0.6320	0.5650	0.2000	17.9	20.0	-10.6	20.0
Vinyl acetate	Ave	0.0557	0.0536*	0.1000	38.5	40.0	-3.8	20.0
2-Chloro-1,3-butadiene	Ave	0.5391	0.5152	0.1000	19.1	20.0	-4.4	20.0
Tert-butyl ethyl ether	Ave	0.9019	0.8788	0.1000	19.5	20.0	-2.6	20.0
2,2-Dichloropropane	Linl		0.5865	0.1000	20.8	20.0	4.1	20.0
cis-1,2-Dichloroethene	Ave	0.4322	0.4151	0.1000	19.2	20.0	-4.0	20.0
Ethyl acetate	Ave	0.0205	0.0199	0.0100	38.7	40.0	-3.2	20.0
2-Butanone (MEK)	Ave	0.0200	0.0181	0.0100	90.5	100	-9.5	20.0
Propionitrile	Ave	0.0221	0.0185	0.0100	168	200	-16.1	20.0
Methacrylonitrile	Ave	0.1082	0.0929*	0.1000	172	200	-14.2	20.0
Chlorobromomethane	Ave	0.2385	0.2441	0.1000	20.5	20.0	2.3	20.0
Tetrahydrofuran	Ave	0.0603	0.0488*	0.0500	32.3	40.0	-19.2	20.0

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1

SDG No.:

Lab Sample ID: CCVIS 490-590475/2 Calibration Date: 04/25/2019 13:10

Instrument ID: HP39 Calib Start Date: 03/20/2019 16:25

GC Column: ZB-624 ID: 0.18 (mm) Calib End Date: 03/20/2019 20:17

Lab File ID: 042519-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloroform	Ave	0.6391	0.6534	0.2000	20.4	20.0	2.2	20.0
1,1,1-Trichloroethane	Ave	0.5930	0.6492	0.1000	21.9	20.0	9.5	20.0
Cyclohexane	Ave	0.5493	0.4489	0.1000	16.3	20.0	-18.3	20.0
Carbon tetrachloride	Ave	0.5348	0.5838	0.1000	21.8	20.0	9.2	20.0
1,1-Dichloropropene	Ave	0.5015	0.4792	0.1000	19.1	20.0	-4.4	20.0
Isobutyl alcohol	Ave	0.0112	0.0068	0.0010	302	500	-39.6*	20.0
Benzene	Ave	1.528	1.493	0.5000	19.5	20.0	-2.3	20.0
t-Amyl alcohol	Ave	0.0123	0.0098	0.0010	159	200	-20.5*	20.0
Tert-amyl methyl ether	Ave	0.9116	0.9293	0.1000	20.4	20.0	1.9	20.0
1,2-Dichloroethane	Lin2		0.4194	0.1000	21.8	20.0	8.9	20.0
n-Heptane	Ave	0.3461	0.2256	0.1000	13.0	20.0	-34.8*	20.0
n-Butanol	Ave	0.0032	0.0019	0.0010	296	500	-40.9*	20.0
Trichloroethene	Ave	0.4563	0.4692	0.2000	20.6	20.0	2.8	20.0
Ethyl acrylate	Ave	0.2418	0.2278	0.1000	18.8	20.0	-5.8	20.0
Methylcyclohexane	Ave	0.6114	0.5459	0.1000	17.9	20.0	-10.7	20.0
1,2-Dichloropropane	Ave	0.3409	0.2908	0.1000	17.1	20.0	-14.7	20.0
Methyl methacrylate	Ave	0.1961	0.1640	0.1000	33.4	40.0	-16.4	20.0
1,4-Dioxane	Ave	1.249	0.7423	0.0010	238	400	-40.6*	20.0
Dibromomethane	Ave	0.1585	0.1648	0.0500	20.8	20.0	4.0	20.0
Bromodichloromethane	Ave	0.4491	0.4854	0.2000	21.6	20.0	8.1	20.0
2-Chloroethyl vinyl ether	Ave	0.1920	0.1752	0.1000	18.3	20.0	-8.7	20.0
2-Nitropropane	Ave	0.1064	0.1019	0.0100	38.3	. 40.0	-4.2	20.0
cis-1,3-Dichloropropene	Ave	0.7007	0.6928	0.2000	19.8	20.0	-1.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0871	0.0713	0.0500	81.8	100	-18.2	20.0
Toluene	Ave	2.180	2.002	0.4000	18.4	20.0	-8.2	20.0
trans-1,3-Dichloropropene	Ave	0.5776	0.5761	0.0100	19.9	20.0	-0.3	20.0
Ethyl methacrylate	Ave	0.4068	0.3527	0.1000	17.3	20.0	-13.3	20.0
1,1,2-Trichloroethane	Ave	0.3127	0.2940	0.1000	18.8	20.0	-6.0	20.0
Tetrachloroethene	Ave	0.6029	0.5747	0.2000	19.1	20.0	-4.7	20.0
1,3-Dichloropropane	Ave	0.5521	0.4894	0.1000	17.7	20.0	-11.4	20.0
2-Hexanone	Ave	0.0786	0.0622	0.0500	79.2	100	-20.8*	20.0
n-Butyl acetate	Lin2		0.2298	0.1000	15.7	20.0	-21.3*	20.0
Dibromochloromethane	Ave	0.3082	0.3233	0.1000	21.0	20.0	4.9	20.0
1,2-Dibromoethane	Ave	0.3106	0.2950	0.1000	19.0	20.0	-5.0	20.0
1-Chlorohexane	Ave	0.5398	0.4467	0.1000	16.5	20.0	-17.3	20.0
Chlorobenzene	Ave	1.405	1.367	0.5000	19.5	20.0	-2.7	20.0
Ethylbenzene	Ave	2.311	2.198	0.1000	19.0	20.0	-4.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5201	0.5154	0.1000	19.8	20.0	-0.9	20.0
m-Xylene & p-Xylene	Ave	1.827	1.778	0.1000	19.5	20.0	-2.7	20.0
o-Xylene	Ave	1.847	1.764	0.3000	19.1	20.0	-4.5	20.0
Styrene	Ave	1.548	1.482	0.3000	19.2	20.0	-4.2	20.0

FORM V GC/MS VOA INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1

SDG No.:

Lab File ID: 04251929.D BFB Injection Date: 04/26/2019

Instrument ID: HP33 BFB Injection Time: 03:25

Analysis Batch No.: 590664

M/E	ION ABUNDANCE CRITERIA		LATIVE IDANCE
50	15.0 - 40.0 % of mass 95	21.1	
75	30.0 - 60.0 % of mass 95	50.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.7	(0.8) 1
174	50.0 - 120.00 % of mass 95	85.5	
175	5.0 - 9.0 % of mass 174	6.6	(7.7) 1
176	95.0 - 101.0 % of mass 174	84.6	(99.0) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-590664/2	04251930.D	04/26/2019	03:51
The second secon	LCS 490-590664/3	04251931.D	04/26/2019	04:18
	LCSD 490-590664/4	04251932.D	04/26/2019	04:44
	MB 490-590664/7	04251935.D	04/26/2019	06:03
SR-003	480-152143-5	04251947.D	04/26/2019	11:18
SR-104	480-152143-2	04251948.D	04/26/2019	11:44
SR-104	480-152143-2	04251950.D	04/26/2019	12:37

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1

SDG No.:

Lab Sample ID: CCVIS 490-590664/2 Calibration Date: 04/26/2019 03:51

Instrument ID: HP33 Calib Start Date: 03/21/2019 19:50

GC Column: RTX-624 ID: 0.18 (mm) Calib End Date: 03/21/2019 23:20

Lab File ID: 04251930.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2187	0.2512	0.1000	23.0	20.0	14.9	20.0
Chloromethane	Ave	0.3341	0.4099	0.1000	24.5	20.0	22.7*	20.0
Vinyl chloride	Ave	0.3518	0.3934	0.1000	22.4	20.0	11.8	20.0
Butadiene	Ave	0.3411	0.4029	0.1000	23.6	20.0	18.1	20.0
Bromomethane	Lin2		0.1895	0.1000	19.5	20.0	-2.7	20.0
Chloroethane	Lin2		0.2522	0.1000	20.5	20.0	2.6	20.0
Dichlorofluoromethane	Ave	0.5442	0.5409	0.1000	19.9	20.0	-0.6	20.0
Trichlorofluoromethane	Ave	0.5007	0.4752	0.1000	19.0	20.0	-5.1	20.0
Ethanol	Linl		0.0013	0.0010	1200	800	49.5*	20.0
Ethyl ether	Ave	0.2314	0.2755	0.1000	23.8	20.0	19.1	20.0
1,1,2-Trichloro-1,2,2-triflu	Ave	0.2845	0.2903	0.1000	20.4	20.0	2.1	20.0
oroethane Acrolein	1	0.007	0.0220	0.0100	54.4	40.4	1.00	
1,1-Dichloroethene	Ave	0.0307	0.0338	0.0100	54.4	49.4	10.2	20.0
Acetone	Ave	0.2811	0.2744	0.1000	19.5	20.0	22.8*	20.0
Iodomethane	Linl	0.0211	0.0259	0.1000	20.9	20.0	4.4	20.0
Isopropyl alcohol	Ave	0.0111	0.3466	0.1000	20.9	20.0	40.5*	20.0
Carbon disulfide	Ave	0.8413	0.0156					
3-Chloro-1-propene		0.8413	0.8347	0.1000	19.8	20.0	-0.8	20.0
Methyl acetate	Ave	0.2696	0.2947	0.1000	21.9	20.0	9.3	20.0
Acetonitrile	Ave	0.1727	0.2261	0.1000	52.4	40.0	30.9*	
Methylene Chloride	Lin2	0.0404	0.0380		188	200	-5.8	20.0
2-Methyl-2-propanol		1 061		0.0100	20.8	20.0	3.9	20.0
	Ave	1.261	1,329	0.0010	211	200	5.4	20.0
Methyl tert-butyl ether	Ave	0.8347	0.8885	0.1000	21.3	20.0	6.4	20.0
trans-1,2-Dichloroethene	Ave	0.4344	0.4749	0.1000	21.9	20.0	9.3	20.0
Acrylonitrile n-Hexane	Ave	0.0943	0.1137	0.0100	241	200	20.6*	20.0
1,1-Dichloroethane	Ave	0.4138	0.4143	0.1000	20.0	20.0	0.1	20.0
	Ave	0.5506	0.6114	0.2000	22.2	20.0	11.0	20.0
Isopropyl ether Vinyl acetate	Ave	0.9843	1.188	0.1000	24.1	20.0	20.7*	20.0
2-Chloro-1,3-butadiene		0.0639	0.0461*	0.1000	28.9	40.0	-27.9*	20.0
Tert-butyl ethyl ether	Ave	0.5060	0.5642	0.1000	22.3	20.0	11.5	20.0
	Ave	0.9194	1.016	0.1000	22.1	20.0	10.5	20.0
2,2-Dichloropropane	Ave	0.5110	0.4315	0.1000	16.9	20.0	~15.6	20.0
cis-1,2-Dichloroethene	Ave	0.3284	0.3236	0.1000	19.7	20.0	-1.5	20.0
2-Butanone (MEK)	Lin2	0.0210	0.0323	0.0100	113	100	12.9	20.0
Ethyl acetate	Ave	0.0310	0.0304	0.0100	39.3	40.0	-1.9	20.0
Propionitrile Chlorehamanathan	Ave	0.0323	0.0420	0.0100	260	200	30.0*	20.0
Chlorobromomethane	Ave	0.1901	0.1898	0.1000	20.0	20.0	-0.2	20.0
Methacrylonitrile	Ave	0.1598	0.2182	0.1000	273	200	36.6*	20.0
Tetrahydrofuran	Ave	0.1004	0.1236	0.0500	49.3	40.0	23.2*	20.0
Chloroform	Ave	0.5400	0.5185	0.2000	19.2	20.0	-4.0	20.0

FORM V

GC/MS VOA INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1

SDG No.:

Lab File ID: 042619-01.D BFB Injection Date: 04/26/2019

Instrument ID: HP39 BFB Injection Time: 12:17

Analysis Batch No.: 590828

M/E	ION ABUNDANCE CRITERIA		LATIVE IDANCE
50	15.0 - 40.0 % of mass 95	18.2	
75	30.0 - 60.0 % of mass 95	51.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.1	
173	Less than 2.0 % of mass 174	1.0	(1.0) 1
174	50.0 - 120.00 % of mass 95	103.3	
175	5.0 - 9.0 % of mass 174	8.0	(7.8) 1
176	95.0 - 101.0 % of mass 174	100.3	(97.1) 1
177	5.0 - 9.0 % of mass 176	6.7	(6.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
#1. 2	CCVIS 490-590828/2	042619-02.D	04/26/2019	12:43
	LCS 490-590828/3	042619-03.D	04/26/2019	13:08
	LCSD 490-590828/4	042619-04.D	04/26/2019	13:34
1 1 22 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	MB 490-590828/8	042619-08.D	04/26/2019	15:18
SR-106	480-152070-2	042619-13.D	04/26/2019	17:28

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1

SDG No.:

Lab Sample ID: CCVIS 490-590828/2 Calibration Date: 04/26/2019 12:43

Instrument ID: HP39 Calib Start Date: 03/20/2019 16:25

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 03/20/2019 20:17

Lab File ID: 042619-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	용D	MAX %D
Propene	Ave	0.3476	0.2179	0.1000	12.5	20.0	-37.3*	20.0
Dichlorodifluoromethane	Ave	0.4093	0.4692	0.1000	22.9	20.0	14.6	20.0
Chloromethane	Ave	0.4315	0.3607	0.1000	16.7	20.0	-16.4	20.0
Vinyl chloride	Ave	0.4196	0.3577	0.1000	17.0	20.0	-14.8	20.0
Butadiene	Ave	0.3829	0.3436	0.1000	17.9	20.0	-10.3	20.0
Bromomethane	Ave	0.2325	0.2463	0.1000	21.2	20.0	5.9	20.0
Chloroethane	Lin2		0.2313	0.1000	18.4	20.0	-7.8	20.0
Dichlorofluoromethane	Ave	0.6262	0.6015	0.1000	19.2	20.0	-3.9	20.0
Trichlorofluoromethane	Ave	0.5901	0.6497	0.1000	22.0	20.0	10.1	20.0
Ethyl ether	Ave	0.2020	0.1807	0.1000	17.9	20.0	-10.6	20.0
Ethanol	Ave	0.0005	0.0002*	0.0010	259	800	-67.6*	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2837	0.2930	0.1000	20.7	20.0	3.3	20.0
Acrolein	Ave	0.0216	0.0174	0.0100	39.7	49.4	-19.6	20.0
1,1-Dichloroethene	Ave	0.3093	0.2796	0.1000	18.1	20.0	-9.6	20.0
Acetone	Ave .	0.0137	0.0113	0.0100	82.1	100	-17.9	20.0
Iodomethane	Ave	0.5013	0.5521	0.1000	22.0	20.0	10.1	20.0
Isopropyl alcohol	Ave	0.0071	0.0033	0.0010	92.0	200	-54.0*	20.0
Carbon disulfide	Linl		0.8378	0.1000	21.3	20.0	6.6	20.0
3-Chloro-1-propene	Lin1		0.2283	0.1000	14.3	20.0	-28.3*	20.0
Methyl acetate	Ave	0.1132	0.0826*	0.1000	29.2	40.0	-27.0*	20.0
Acetonitrile	Ave	0.0109	0.0081	0.0010	148	200	-26.0*	20.0
Methylene Chloride	Ave	0.3762	0.3421	0.0100	18.2	20.0	-9.1	20.0
2-Methyl-2-propanol	Ave	1.427	1.248	0.0010	175	200	-12.5	20.0
Methyl tert-butyl ether	Ave	0.7291	0.7054	0.1000	19.3	20.0	-3.3	20.0
trans-1,2-Dichloroethene	Ave	0.4748	0.4466	0.1000	18.8	20.0	-5.9	20.0
Acrylonitrile	Ave	0.0592	0.0481	0.0100	163	200	-18.7	20.0
n-Hexane	Ave	0.4269	0.3704	0.1000	17.4	20.0	-13.2	20.0
Isopropyl ether	Lin2		0.8026	0.1000	17.6	20.0	-12.2	20.0
1,1-Dichloroethane	Ave	0.6320	0.6013	0.2000	19.0	20.0	-4.9	20.0
Vinyl acetate	Ave	0.0557	0.0525*	0.1000	37.7	40.0	-5.8	20.0
2-Chloro-1,3-butadiene	Ave	0.5391	0.5517	0.1000	20.5	20.0	2.3	20.0
Tert-butyl ethyl ether	Ave	0.9019	0.8668	0.1000	19.2	20.0	-3.9	20.0
2,2-Dichloropropane	Lin1		0.6235	0.1000	22.1	20.0	10.7	20.0
cis-1,2-Dichloroethene	Ave	0.4322	0.4180	0.1000	19.3	20.0	-3.3	20.0
2-Butanone (MEK)	Ave	0.0200	0.0177	0.0100	88.4	100	-11.6	20.0
Ethyl acetate	Ave	0.0205	0.0206	0.0100	40.1	40.0	0.4	20.0
Propionitrile	Ave	0.0221	0.0163	0.0100	148	200	-26.2*	20.0
Methacrylonitrile	Ave	0.1082	0.0896*	0.1000	166	200	-17.2	20.0
Chlorobromomethane	Ave	0.2385	0.2478	0.1000	20.8	20.0	3.9	20.0
Tetrahydrofuran	Ave	0.0603	0.0494*	0.0500	32.7	40.0	-18.1	20.0

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152070-1

SDG No.:

Lab Sample ID: CCVIS 490-590828/2 Calibration Date: 04/26/2019 12:43

Instrument ID: HP39 Calib Start Date: 03/20/2019 16:25

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 03/20/2019 20:17

Lab File ID: 042619-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloroform	Ave	0.6391	0.6510	0.2000	20.4	20.0	1.9	20.0
1,1,1-Trichloroethane	Ave	0.5930	0.6260	0.1000	21.1	20.0	5.6	20.0
Cyclohexane	Ave	0.5493	0.4846	0.1000	17.6	20.0	-11.8	20.0
1,1-Dichloropropene	Ave	0.5015	0.4937	0.1000	19.7	20.0	-1.6	20.0
Carbon tetrachloride	Ave	0.5348	0.5853	0.1000	21.9	20.0	9.4	20.0
Isobutyl alcohol	Ave	0.0112	0.0061	0.0010	271	500	-45.7*	20.0
t-Amyl alcohol	Ave	0.0123	0.0085	0.0010	138	200	-31.0*	20.0
Benzene	Ave	1.528	1.493	0.5000	19.5	20.0	-2.3	20.0
Tert-amyl methyl ether	Ave	0.9116	0.8442	0.1000	18.5	20.0	-7.4	20.0
1,2-Dichloroethane	Lin2		0.4415	0.1000	22.9	20.0	14.7	20.0
n-Heptane	Ave	0.3461	0.2327	0.1000	13.4	20.0	-32.8*	20.0
n-Butanol	Ave	0.0032	0.0014	0.0010	225	500	-55.0*	20.0
Trichloroethene	Ave	0.4563	0.4750	0.2000	20.8	20.0	4.1	20.0
Ethyl acrylate	Ave	0.2418	0.2117	0.1000	17.5	20.0	-12.4	20.0
Methylcyclohexane	Ave	0.6114	0.5029	0.1000	16.5	20.0	-17.7	20.0
1,2-Dichloropropane	Ave	0.3409	0.2997	0.1000	17.6	20.0	-12.1	20.0
Methyl methacrylate	Ave	0.1961	0.1743	0.1000	35.6	40.0	-11.1	20.0
1,4-Dioxane	Ave	1.249	0.7673	0.0010	246	400	-38.6*	20.0
Dibromomethane	Ave	0.1585	0.1583	0.0500	20.0	20.0	-0.2	20.0
Bromodichloromethane	Ave	0.4491	0.4563	0.2000	20.3	20.0	1.6	20.0
2-Chloroethyl vinyl ether	Ave	0.1920	0.1695	0.1000	17.7	20.0	-11.7	20.0
2-Nitropropane	Ave	0.1064	0.0979	0.0100	36.8	40.0	-8.0	20.0
cis-1,3-Dichloropropene	Ave	0.7007	0.6697	0.2000	19.1	20.0	-4.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0871	0.0649	0.0500	74.5	100	-25.5*	20.0
Toluene	Ave	2.180	1.954	0.4000	17.9	20.0	-10.4	20.0
trans-1,3-Dichloropropene	Ave	0.5776	0.5558	0.0100	19.2	20.0	-3.8	20.0
Ethyl methacrylate	Ave	0.4068	0.3284	0.1000	16.1	20.0	-19.3	20.0
1,1,2-Trichloroethane	Ave	0.3127	0.2839	0.1000	18.2	20.0	-9.2	20.0
Tetrachloroethene	Ave	0.6029	0.5583	0.2000	18.5	20.0	-7.4	20.0
1,3-Dichloropropane	Ave	0.5521	0.4609	0.1000	16.7	20.0	-16.5	20.0
2-Hexanone	Ave	0.0786	0.0583	0.0500	74.1	100	-25.9*	20.0
n-Butyl acetate	Lin2		0.2082	0.1000	14.2	20.0	-28.8*	20.0
Dibromochloromethane	Ave	0.3082	0.2997	0.1000	19.5	20.0	-2.7	20.0
1,2-Dibromoethane	Ave	0.3106	0.2714	0.1000	17.5	20.0	-12.6	20.0
1-Chlorohexane	Ave	0.5398	0.4373	0.1000	16.2	20.0	-19.0	20.0
Chlorobenzene	Ave	1.405	1.296	0.5000	18.4	20.0	-7.8	20.0
Ethylbenzene	Ave	2.311	2.136	0.1000	18.5	20.0	-7.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5201	0.4711	0.1000	18.1	20.0	-9.4	20.0
m-Xylene & p-Xylene	Ave	1.827	1.708	0.1000	18.7	20.0	-6.5	20.0
o-Xylene	Ave	1.847	1.651	0.3000	17.9	20.0	-10.6	20.0
Styrene	Ave	1.548	1.421	0.3000	18.4	20.0	-8.2	20.0

13-IN ANALYSIS RUN LOG METALS

Lab Name: E	urofins TestAmerica, Buffalo	Job No.: 480-152070-1
SDG No.:		
Instrument I	D: ICAP1	Method: 6010C
Start Date:	04/22/2019 10:10	End Date: 04/22/2019 22:00

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13-IN ANALYSIS RUN LOG METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 04/22/2019 10:10 End Date: 04/22/2019 22:00

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Prep Types

D = Dissolved

R = Total Recoverable

2A-IN CALIBRATION VERIFICATIONS METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG No.:

ICV Source: MEI_10_CCVL_00245 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00245

			-469213/3 019 20:28	_			-469213/4 019 21:1					
Analyte	Found	С	True	₹R	Found	С	True	₹R	Found	С	True	₽R
Iron, Dissolved	0.0402	J	0.0500	80	0.0400	J	0.0500	80)			
Manganese, Dissolved	0.00323		0.00300	108	0.00318		0.00300	106				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results. Italicized analytes were not requested for this sequence.

13-IN ANALYSIS RUN LOG METALS

Lab Name:	Eurofi	ns TestAmerica,	Buffalo	Job No.:	480-152070-1	
SDG No.:						
Instrument	TD: T	CAP1		Method:	6010C	

Instrument ID: ICAP1 Method: 6010C

Start Date: 04/25/2019 11:00 End Date: 04/25/2019 20:46

Start Date: <u>04/25</u>	/2019	11:	00			En	d	Da	te:	:	04,	/25	/20	19	20	:40	5 					_
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CCV 480-469920/28	1		19:53	Х	Х																	
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2A-IN CALIBRATION VERIFICATIONS METALS

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-152070-1

SDG No.:

ICV Source: MEI 10 CCVL 00245

Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00245

	ICVL 04/2		0-469920/ 019 11:3	_	CCVL 04/2		-469920/2 019 19:14		CCVL 04/2		0-469920/3 019 20:00	
Analyte	Found	С	True	₽R	Found	С	True	%R	Found	С	True	%R_
Iron, Dissolved	0.0523		0.0500	105	0.0468	J	0.0500	94	0.0382	J	0.0500	76
Manganese, Dissolved	0.00236	J	0.00300	79	0.00217	J	0.00300	72	0.00224	J	0.00300	75

Note! Calculations are performed before rounding to avoid round-off errors in calculated results. Italicized analytes were not requested for this sequence.

13-IN ANALYSIS RUN LOG METALS

Lab Name:	Eurofins TestAmerica, Buffalo	Job No.: 480-152070-1	
SDG No.:			
Instrument	ID: ICAP2	Method: 6010C	
Start Date	: 04/26/2019 10:04	End Date: 04/26/2019 21:22	

Start Date: 04/26	5/2019	10:	: 04		End	i i	Da	te:		04/	26	/20)19	21	: 2	2						_
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Lab Sample ID	D / F	T Y P e	Time	e																		63
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13-IN ANALYSIS RUN LOG METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 04/26/2019 10:04 End Date: 04/26/2019 21:22

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Prep Types

T = Total/NA

2A-IN CALIBRATION VERIFICATIONS METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG No.:

ICV Source: MEI_10_CCVL_00245 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00245

	CCVL 04/2		-470206/3 019 19:55		CCVL 04/2		-470206/4 019 20:38	-	CCVL 04/2		-470206/5)19 21:22	
Analyte	Found	С	True	%R	Found	С	True	%R	Found	С	True	₹R
Iron	0.0443	J	0.0500	89	0.0468	J	0.0500	94	0.0440	J	0.0500	88
Manganese			-		0.00209	J	0.00300	70				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results. Italicized analytes were not requested for this sequence.

13-IN ANALYSIS RUN LOG METALS

Lab Name:	Euro	fins	TestAmerica,	Buffalo	Job No.:	480-152070-1	44.00.000	
SDG No.:								
Instrument	ID:	ICA	?2		Method:	6010C		

Start Date: 05/13/2019 11:52 End Date: 05/13/2019 19:17

Start Date: 05/13	/2019	, 11:	52			_ Enc	1 1	Dat	ce:		05/	13	/20	119	19	::1	_				-		
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IC 480-472702/4			12:03	x	Х		\dagger	\dashv	1								t						
ICV 480-472702/5	1		12:07	X	Х		\dagger	\dashv	\dashv										0:				\vdash
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CCV 480-472702/17	1		16:12	x	х		+	+	+							 							\vdash
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CCVL 480-472702/19	1		16:19	Х	х		+	\dashv			-			-			-	-	-		-		-
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13-IN ANALYSIS RUN LOG METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 05/13/2019 11:52 End Date: 05/13/2019 19:17

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CCB 480-472702/48	1		18:29	X	Х	 	 									-	-			\vdash
CCVL 480-472702/49	1		18:32	X	X										<u> </u>	-				М
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Prep Types

T = Total/NA

2A-IN CALIBRATION VERIFICATIONS METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152070-1

SDG No.:

ICV Source: MEI_10_CCVL_00248 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00248

	ICVL 05/1		0-472702/ 019 12:1		CCVL 05/1		-472702/1 019 16:1		CCVL 05/1		-472702/2 019 17:03	
Analyte	Found	С	True	₹R	Found	С	True	%R	Found	С	True	₹Ř
Iron	0.0538	<u> </u>	0.0500	108	0.0512		0.0500	102	0.0516		0.0500	103
Manganese	0.00344		0.00300	115	6.00337		0.00300	112	0.00343		0.00300	114

Note! Calculations are performed before rounding to avoid round-off errors in calculated results. Italicized analytes were not requested for this sequence.

2A-IN CALIBRATION VERIFICATIONS METALS

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-152070-1

SDG No.:

ICV Source: MEI 10 CCVL 00248

Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00248

9	1		-472702/3 019 17:4		V		-472702/4 019 18:3	- 1				
Analyte	Found	С	True	₹R	Found	С	True	₽R	Found	С	True	₹R
Iron	0.0531		0.0500	106	0.0521		0.0500	104				<u> </u>
Manganese	0.00344		0.00300	115	0.00344		0.00300	115				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results. Italicized analytes were not requested for this sequence.

10 Hazelwood Drive Amberst, NY 14228-2288 Phone (716) 661-2600 Fax (716) 691-7991

Client Information	Sampler	したなっつ	,	Lab PM	6	07.				0	Camer Tracking No(s)	ung No(s)		COC No 480-120178-20164-1	
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Company AECOM								Anal	sis	Regn	Analysis Requested			# qof	
Address 257 West Genesee Street Suite 400	Due Date Requested:	ij			ess	L		}-		-	P3/	F	F	Preservation Codes	95:
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Phone	Po # CallOut ID: 136077	1			To	-	_	- 4							9 3
Email george.kisluk@aecom.com	WO #-				(oN	2.40		908			LIN	480-152241		Chain of Custody	
Project Name Lapp insulator Site# 819017	Project # 48018841				jo de	I OF M		rolO->			94.59		s:=0:00	L-EDA	Z - other (specify)
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sted I II III (V)Other (specify)		1			Sp	cral	Special Instructions/QC Requirements	s/QC	Requi	emen	s				Sulfragi
Empty Kit Relinquished by		Date.			Time	١.	1		L	1	Mem	Method of Shipment.	nent.	Mar of	وا
Reinquisher by	Date/Time	7 / 3	5	ACTOM	ź		A A					<u></u>	1-	C> 18 CO	Complete
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Custody Seals Intact. Custody Seal No:						Cooler	Cooler Temperature(s) "C and Other Remarks	(s)e.m	C and C	ther Re	marks	7	α	#17CE	
										1					Ver 01/16/2019

Environment Testing TestAmerica N. None
O-Ashlaco
P-NazOcs
Q-NazScos
R-NazScos
S-1250
T-175 Dodecahydr
U-Acatona
V-pH 4-5
Z-other (specify) Company Note: Since isboratory accreditations are subject to change, TestAmerica Laboratories, inc. places the ownership of method analyze & accreditation compliance upon out subcentract laboratories. This samples to accreditation is the TestAmerica laboratory or other hatructors will be provided. Any changes to accreditation status should be brought to TestAmerica laboratory or other hatructors will be provided. Any changes to accreditation status should be brought to TestAmerica laboratories, inc. attention immediately. If all inquested accreditations are current to date, return the signed Chain of Custody attesting to seld complicance to TestAmerica Laboratories, inc. Special Instructions/Note: Ver: 01/16/2019 Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Leb Archive For Mor eurofins | 480-152241-1 Preservation Code 04:30 A- HCL
B- NaOH
C- Zn Acette
D- Nitric Acid
E- na NaSO4
F- MacOH
G- Amchlor
F- Amchlor
F- Les
J- DI Water
J- LES
L- EDA IC No: . age 1 of 1 Job #: Data/Time: OH/24/16 Data/Time: Total Number of containers 'n 9 480-152241 Date/Time: **Wethod of Shipment** 7.7 **Analysis Requested** Cooler Temperature(s) C and Other Remarks: Lab PN:
Johnson, Orlette S
E-Mail:
orlette johnson@testamericainc.com Received by: A Accreditations Required (See note): NELAP - New York eceived by: Chain of Custody Record × × × × 8560C/5030C TCL Int OLMO4.2 Preservation Code: Company Matrix (versets, presite, Water Water Water Water Company Type (C=comp G=grab) Sample 1630 Primary Deliverable Rank: 1 09:05 Eastern 10:35 Eastern 12:00 Sample Eastern Eastern Due Date Requested: 5/13/2019 TAT Requested (days): 4-93-15 Destartine: Sample Date 4/19/18 4/19/18 4/19/19 4/19/19 Project #: 48018841 SSOW#: Sata/Time: * Q # 0 Deliverable Requested: I, II, III, IV, Other (specify) Client Information (Sub Contract Lab) Custody Seals Intact: Custody Seal No.: Sample identification - Client ID (Lab ID) Amherst, NY 14228-2298 Phone (718) 691-2600 Fax (718) 691-7991 615-726-0177(Tel) 615-726-3404(Fax) Possible Hazard Identification estAmerica Laboratories, Inc. TB-20180419 (480-152241-4) 2960 Foster Creighton Drive, Project Name: Lapp Insulator Site# 819017 Empty Kit Relinquished by BRW-02 (480-152241-2) SR-005 (480-152241-3) SR-004 (480-152241-1) 10 Hazelwood Drive Radhard Shed By Shipping/Receiving telinquished by: Unconfirmed Relinquished by: State, Zip: TN, 37204 Vashville

Page 1343 of 1344

05/23/2019

Eurofins TestAmerica, Buffalo

Job Narrative 480-152241-1

Comments

No additional comments.

Receipt

The samples were received on 4/19/2019 1:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS VOA

Method(s) 8260C: The following sample was diluted due to the nature of the sample matrix: SR-005 (480-152241-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted due to the nature of the sample matrix: BRW-02 (480-152241-2). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

Method(s) 8270D SIM ID: The following samples were diluted to bring the concentration of target analytes within the calibration range: BRW-02 (480-152241-2) and SR-005 (480-152241-3). Elevated reporting limits (RLs) are provided.

Method(s) 8270D SIM ID: The 1,4-Dioxane result reported for samples BRW-02 (480-152241-2) and SR-005 (480-152241-3) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

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

HPLC/IC

Method(s) 300.0: The following samples were analyzed outside of analytical holding time due to the samples being unavailable for testing after receipt: SR-004 (480-152241-1), BRW-02 (480-152241-2) and SR-005 (480-152241-3).

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

Metals

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

General Chemistry

Method(s) SM 5210B: The RPD between the lowest and highest values used in averaging the final result exceeds 30%. SR-005 (480-152241-3)

Method(s) SM 5210B: The following sample was analyzed outside of analytical holding time due to laboratory error: SR-004 (480-152241-1).

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

Organic Pres

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

VOA Prep

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

FORM V GC/MS VOA INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152241-1

SDG No.:

Lab File ID: 0426-01.D BFB Injection Date: 04/26/2019

Instrument ID: HP48 BFB Injection Time: 15:07

Analysis Batch No.: 590877

M/E	ION ABUNDANCE CRITERIA		ATIVE DANCE
50	15.0 - 40.0 % of mass 95	16.0	
75	30.0 - 60.0 % of mass 95	44.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	97.3	
175	5.0 - 9.0 % of mass 174	7.5	(7.7) 1
176	95.0 - 101.0 % of mass 174	95.2	(97.8) 1
177	5.0 - 9.0 % of mass 176	6.2	(6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-590877/2	0426-02.D	04/26/2019	15:34
	LCS 490-590877/3	0426-03.D	04/26/2019	16:02
	LCSD 490-590877/4	0426-04.D	04/26/2019	16:29
***	MB 490-590877/7	0426-07.D	04/26/2019	17:50
SR-004	480-152241-1	0426-12.D	04/26/2019	20:05
BRW-02	480-152241-2	0426-13.D	04/26/2019	20:32
TB-20190419	480-152241-4	0426-17.D	04/26/2019	22:20

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152241-1

SDG No.:

Lab Sample ID: CCVIS 490-590877/2 Calibration Date: 04/26/2019 15:34

Instrument ID: HP48 Calib Start Date: 03/11/2019 20:05

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 03/12/2019 00:11

Lab File ID: 0426-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propene	Ave	0.3596	0.2680	0.1000	14.9	20.0	-25.5*	20.0
Dichlorodifluoromethane	Ave	0.3524	0.3226	0.1000	18.3	20.0	-8.5	20.0
Chloromethane	Ave	0.3850	0.3380	0.1000	17.6	20.0	-12.2	20.0
Vinyl chloride	Ave	0.3657	0.3251	0.1000	17.8	20.0	-11.1	20.0
Butadiene	Ave	0.3589	0.3059	0.1000	17.0	20.0	-14.8	20.0
Bromomethane	Ave	0.1734	0.1696	0.1000	19.6	20.0	-2.2	20.0
Chloroethane	Ave	0.2181	0.1881	0.1000	17.2	20.0	-13.8	20.0
Dichlorofluoromethane	Ave	0.4708	0.4144	0.1000	17.6	20.0	-12.0	20.0
Trichlorofluoromethane	Ave	0.3881	0.3956	0.1000	20.4	20.0	1.9	20.0
Ethanol	Linl		0.0002*	0.0010	849	800	6.1	20.0
Ethyl ether	Ave	0.1491	0.1312	0.1000	17.6	20.0	-12.0	20.0
Acrolein	Lin2		0.0162	0.0100	59.5	49.4	20.4*	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2300	0.2485	0.1000	21.6	20.0	8.0	20.0
1,1-Dichloroethene	Ave	0.2335	0.2330	0.1000	20.0	20.0	-0.2	20.0
Acetone	Lin2		0.0080*	0.0100	102	100	1.9	20.0
Iodomethane	Ave	0.3672	0.3600	0.1000	19.6	20.0	-2.0	20.0
Isopropyl alcohol	Lin2		0.0034	0.0010	175	200	-12.4	20.0
Carbon disulfide	Ave	0.7485	0.6470	0.1000	17.3	20.0	-13.6	20.0
3-Chloro-1-propene	Ave	0.2212	0.2064	0.1000	18.7	20.0	-6.7	20.0
Acetonitrile	Ave	0.0563	0.0476	0.0010	169	200	-15.6	20.0
Methyl acetate	Ave	0.0790	0.0709*	0.1000	35.9	40.0	-10.2	20.0
Methylene Chloride	Lin2		0.2293	0.0100	19.1	20.0	-4.5	20.0
2-Methyl-2-propanol	Ave	0.9780	0.8873	0.0010	181	200	-9.3	20.0
Methyl tert-butyl ether	Ave	0.4588	0.4199	0.1000	18.3	20.0	-8.5	20.0
trans-1,2-Dichloroethene	Ave	0.3538	0.3264	0.1000	18.4	20.0	-7.8	20.0
Acrylonitrile	Lin1		0.0359	0.0100	191	200	-4.7	20.0
n-Hexane	Lin2		0.3480	0.1000	20.3	20.0	1.6	20.0
Isopropyl ether	Lin2		0.6468	0.1000	16.8	20.0	-16.2	20.0
1,1-Dichloroethane	Ave	0.4962	0.4157	0.2000	16.8	20.0	-16.2	20.0
Vinyl acetate	Ave	0.0244	0.0291*	0.1000	47.6	40.0	19.0	20.0
2-Chloro-1,3-butadiene	Ave	0.3737	0.3693	0.1000	19.8	20.0	-1.2	20.0
Tert-butyl ethyl ether	Ave	0.6285	0.5548	0.1000	17.7	20.0	-11.7	20.0
2,2-Dichloropropane	Ave	0.3926	0.3683	0.1000	18.8	20.0	-6.2	20.0
cis-1,2-Dichloroethene	Ave	0.3063	0.2695	0.1000	17.6	20.0	-12.0	20.0
2-Butanone (MEK)	Ave	0.0109	0.0108	0.0100	98.4	100	-1.6	20.0
Ethyl acetate	Lin2		0.0121	0.0100	38.8	40.0	-3.1	20.0
Propionitrile	Ave	0.0135	0.0126	0.0100	186	200	-7.1	20.0
Methacrylonitrile	Lin2		0.0731*	0.1000	208	200	3.8	20.0
Chlorobromomethane	Ave	0.1633	0.1534	0.1000	18.8	20.0	-6.0	20.0
Chloroform	Ave	0.4602	0.4040	0.2000	17.6	20.0	-12.2	20.0

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152241-1

SDG No.:

Lab Sample ID: CCVIS 490-590877/2 Calibration Date: 04/26/2019 15:34

Instrument ID: HP48 Calib Start Date: 03/11/2019 20:05

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 03/12/2019 00:11

Lab File ID: 0426-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrahydrofuran	Ave	0.0292	0.0316*	0.0500	43.3	40.0	8.2	20.0
1,1,1-Trichloroethane	Lin2	-	0.3755	0.1000	19.2	20.0	-4.2	20.0
Cyclohexane	Ave	0.4851	0.4319	0.1000	17.8	20.0	-11.0	20.0
1,1-Dichloropropene	Lin2		0.3528	0.1000	19.8	20.0	-1.2	20.0
Carbon tetrachloride	Ave	0.3487	0.3329	0.1000	19.1	20.0	-4.5	20.0
Isobutyl alcohol	Linl		0.0024	0.0010	511	500	2.2	20.0
t-Amyl alcohol	Lin1		0.0042	0.0010	192	200	-3.8	20.0
Benzene	Ave	1.117	1.001	0.5000	17.9	20.0	-10.4	20.0
1,2-Dichloroethane	Lin1		0.2420	0.1000	19.4	20.0	-2.8	20.0
Tert-amyl methyl ether	Ave	0.5522	0.4873	0.1000	17.7	20.0	-11.7	20.0
n-Heptane	Lin1		0.3028	0.1000	20.6	20.0	3.2	20.0
n-Butanol	Ave	0.0016	0.0014	0.0010	450	500	-10.1	20.0
Trichloroethene	Ave	0.3301	0.3116	0.2000	18.9	20.0	-5.6	20.0
Ethyl acrylate	Ave	0.1578	0.1509	0.1000	19.1	20.0	-4.4	20.0
Methylcyclohexane	Ave	0.5243	0.4520	0.1000	17.2	20.0	-13.8	20.0
1,2-Dichloropropane	Ave	0.2678	0.2354	0.1000	17.6	20.0	-12.1	20.0
Methyl methacrylate	Lin2		0.1220	0.1000	41.5	40.0	3.8	20.0
1,4-Dioxane	Ave	0.7752	0.6872	0.0010	355	400	-11.4	20.0
Dibromomethane	Ave	0.1100	0.1042	0.0500	18.9	20.0	-5.3	20.0
Bromodichloromethane	Ave	0.3251	0.2874	0.2000	17.7	20.0	-11.6	20.0
2-Nitropropane	Lin1		0.0541	0.0100	39.1	40.0	-2.3	20.0
2-Chloroethyl vinyl ether	Ave	0.1020	0.0950*	0.1000	18.6	20.0	-6.9	20.0
cis-1,3-Dichloropropene	Ave	0.5458	0.4761	0.2000	17.4	20.0	-12.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0548	0.0518	0.0500	94.4	100	-5.6	20.0
Toluene	Ave	1.644	1.415	0.4000	17.2	20.0	-13.9	20.0
trans-1,3-Dichloropropene	Ave	0.4237	0.3573	0.0100	16.9	20.0	-15.7	20.0
Ethyl methacrylate	Ave	0.2665	0.2461	0.1000	18.5	20.0	-7.7	20.0
1,1,2-Trichloroethane	Ave	0.2254	0.2000	0.1000	17.7	20.0	-11.3	20.0
Tetrachloroethene	Ave	0.4997	0.4359	0.2000	17.4	20.0	-12.8	20.0
1,3-Dichloropropane	Ave	0.3989	0.3580	0.1000	17.9	20.0	-10.3	20.0
2-Hexanone	Ave	0.0480	0.0458*	0.0500	95.4	100	-4.6	20.0
n-Butyl acetate	Lin1		0.1975	0.1000	19.5	20.0	-2.4	20.0
Dibromochloromethane	Ave	0.2126	0.1981	0.1000	18.6	20.0	-6.8	20.0
1,2-Dibromoethane	Ave	0.2210	0.2060	0.1000	18.6	20.0	-6.8	20.0
1-Chlorohexane	Ave	0.4688	0.3931	0.1000	16.8	20.0	-16.2	20.0
Chlorobenzene	Ave	1.080	0.9338	0.5000	17.3	20.0	-13.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3586	0.3059	0.1000	17.1	20.0	-14.7	20.0
Ethylbenzene	Lin2		1,533	0.1000	17.6	20.0	-12.1	20.0
m-Xylene & p-Xylene	Lin2		1.220	0.1000	17.6	20.0	-12.2	20.0
o-Xylene	Ave	1.478	1.263	0.3000	17.1	20.0	-14.5	20.0
Styrene	Ave	1.188	1.031	0.3000	17.4	20.0	-13.2	20.0

FORM V

GC/MS VOA INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152241-1

SDG No.:

Lab File ID: 0425-01.D BFB Injection Date: 04/25/2019

Instrument ID: HP48 BFB Injection Time: 13:27

Analysis Batch No.: 590503

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.2	
75	30.0 - 60.0 % of mass 95	43.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0 (0.0)	1
174	50.0 - 120.00 % of mass 95	97.3	
175	5.0 - 9.0 % of mass 174	7.2 (7.4)	1
176	95.0 - 101.0 % of mass 174	94.8 (97.4)	1
177	5.0 - 9.0 % of mass 176	6.2 (6.5)	2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-590503/2	0425-02.D	04/25/2019	13:54
2 10	LCS 490-590503/3	0425-03.D	04/25/2019	14:21
	LCSD 490-590503/4	0425-04.D	04/25/2019	14:48
AC. CONSTRUCTION CONTRACT AS	MB 490-590503/7	0425-07.D	04/25/2019	16:10
SR-005	480-152241-3	0425-25.D	04/26/2019	00:18

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152241-1

SDG No.:

Lab Sample ID: CCVIS 490-590503/2 Calibration Date: 04/25/2019 13:54

Instrument ID: HP48 Calib Start Date: 03/11/2019 20:05

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 03/12/2019 00:11

Lab File ID: 0425-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	용D	MAX %D
Propene	Āve	0.3596	0.2394	0.1000	13.3	20.0	-33.4*	20.0
Dichlorodifluoromethane	Ave	0.3524	0.2925	0.1000	16.6	20.0	-17.0	20.0
Chloromethane	Ave	0.3850	0.3395	0.1000	17.6	20.0	-11.8	20.0
Vinyl chloride	Ave	0.3657	0.3183	0.1000	17.4	20.0	-13.0	20.0
Butadiene	Ave	0.3589	0.2930	0.1000	16.3	20.0	-18.4	20.0
Bromomethane	Ave	0.1734	0.1635	0.1000	18.9	20.0	-5.7	20.0
Chloroethane	Ave	0.2181	0.1877	0.1000	17.2	20.0	-13.9	20.0
Dichlorofluoromethane	Ave	0.4708	0.4215	0.1000	17.9	20.0	-10.5	20.0
Trichlorofluoromethane	Ave	0.3881	0.3823	0.1000	19.7	20.0	-1.5	20.0
Ethanol	Lin1		0.0003*	0.0010	1010	800	26.3*	20.0
Ethyl ether	Ave	0.1491	0.1317	0.1000	17.7	20.0	-11.7	20.0
Acrolein	Lin2		0.0145	0.0100	52.8	49.4	6.8	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2300	0.2158	0.1000	18.8	20.0	-6.2	20.0
1,1-Dichloroethene	Ave	0.2335	0.2162	0.1000	18.5	20.0	-7.4	20.0
Acetone	Lin2		0.0079*	0.0100	100	100	0.4	20.0
Iodomethane	Ave	0.3672	0.3577	0.1000	19.5	20.0	-2.6	20.0
Isopropyl alcohol	Lin2		0.0044	0.0010	235	200	17.5	20.0
Carbon disulfide	Ave	0.7485	0.6361	0.1000	17.0	20.0	-15.0	20.0
3-Chloro-1-propene	Ave	0.2212	0.1973	0.1000	17.8	20.0	-10.8	20.0
Acetonitrile	Ave	0.0563	0.0498	0.0010	177	200	-11.6	20.0
Methyl acetate	Ave	0.0790	0.0698*	0.1000	35.4	40.0	-11.6	20.0
Methylene Chloride	Lin2		0.2161	0.0100	17.9	20.0	-10.3	20.0
2-Methyl-2-propanol	Ave	0.9780	1.029	0.0010	210	200	5.2	20.0
Methyl tert-butyl ether	Ave	0.4588	0.4023	0.1000	17.5	20.0	-12.3	20.0
trans-1,2-Dichloroethene	Ave	0.3538	0.3248	0.1000	18.4	20.0	-8.2	20.0
Acrylonitrile	Lin1		0.0348	0.0100	185	200	-7.6	20.0
n-Hexane	Lin2		0.3031	0.1000	17.7	20.0	-11.7	20.0
Isopropyl ether	Lin2		0.6414	0.1000	16.6	20.0	-16.9	20.0
1,1-Dichloroethane	Ave	0.4962	0.3969	0.2000	16.0	20.0	-20.0	20.0
Vinyl acetate	Ave	0.0244	0.0264*	0.1000	43.1	40.0	7.8	20.0
2-Chloro-1,3-butadiene	Ave	0.3737	0.3513	0.1000	18.8	20.0	-6.0	20.0
Tert-butyl ethyl ether	Ave	0.6285	0.5492	0.1000	17.5	20.0	-12.6	20.0
2,2-Dichloropropane	Ave	0.3926	0.3586	0.1000	18.3	20.0	-8.7	20.0
cis-1,2-Dichloroethene	Ave	0.3063	0.2763	0.1000	18.0	20.0	-9.8	20.0
2-Butanone (MEK)	Ave	0.0109	0.0109	0.0100	99.7	100	-0.3	20.0
Ethyl acetate	Lin2		0.0116	0.0100	37.0	40.0	-7.6	20.0
Propionitrile	Ave	0.0135	0.0130	0.0100	192	200	-3.8	20.0
Methacrylonitrile	Lin2		0.0713*	0.1000	202	200	1.1	20.0
Chlorobromomethane	Ave	0.1633	0.1469	0.1000	18.0	20.0	-10.0	20.0
Tetrahydrofuran	Ave	0.0292	0.0274*	0.0500	37.5	40.0	-6.2	20.0

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152241-1

SDG No.:

Lab Sample ID: CCVIS 490-590503/2 Calibration Date: 04/25/2019 13:54

Instrument ID: HP48 Calib Start Date: 03/11/2019 20:05

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 03/12/2019 00:11

Lab File ID: 0425-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloroform	Ave	0.4602	0.3944	0.2000	17.1	20.0	-14.3	20.0
1,1,1-Trichloroethane	Lin2	-	0.3607	0.1000	18.4	20.0	-8.0	20.0
Cyclohexane	Ave	0.4851	0.4128	0.1000	17.0	20.0	-14.9	20.0
1,1-Dichloropropene	Lin2		0.3398	0.1000	19.0	20.0	-4.9	20.0
Carbon tetrachloride	Ave	0.3487	0.3100	0.1000	17.8	20.0	-11.1	20.0
Isobutyl alcohol	Lin1		0.0025	0.0010	534	500	6.8	20.0
t-Amyl alcohol	Linl		0.0049	0.0010	222	200	11.2	20.0
Benzene	Ave	1.117	0.9592	0.5000	17.2	20.0	-14.1	20.0
1,2-Dichloroethane	Linl		0.2306	0.1000	18.5	20.0	-7.5	20.0
Tert-amyl methyl ether	Ave	0.5522	0.4697	0.1000	17.0	20.0	-14.9	20.0
n-Heptane	Lin1		0.2448	0.1000	16.6	20.0	-16.9	20.0
n-Butanol	Ave	0.0016	0.0016	0.0010	496	500	-0.8	20.0
Trichloroethene	Ave	0.3301	0.2933	0.2000	17.8	20.0	-11.2	20.0
Ethyl acrylate	Ave	0.1578	0.1473	0.1000	18.7	20.0	-6.7	20.0
Methylcyclohexane	Ave	0.5243	0.4271	0.1000	16.3	20.0	-18.5	20.0
1,2-Dichloropropane	Ave	0.2678	0.2288	0.1000	17.1	20.0	-14.6	20.0
Methyl methacrylate	Lin2		0.1091	0.1000	36.9	40.0	-7.7	20.0
Dibromomethane	Ave	0.1100	0.0983	0.0500	17.9	20.0	-10.6	20.0
1,4-Dioxane	Ave	0.7752	1.046	0.0010	540	400	34.9*	20.0
Bromodichloromethane	Ave	0.3251	0.2632	0.2000	16.2	20.0	-19.1	20.0
2-Nitropropane	Lin1		0.0460	0.0100	33.2	40.0	-17.0	20.0
2-Chloroethyl vinyl ether	Ave	0.1020	0.0875*	0.1000	17.2	20.0	-14.1	20.0
cis-1,3-Dichloropropene	Ave	0.5458	0.4658	0.2000	17.1	20.0	-14.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0548	0.0507	0.0500	92.5	100	-7.5	20.0
Toluene	Ave	1.644	1.405	0.4000	17.1	20.0	-14.6	20.0
trans-1,3-Dichloropropene	Ave	0.4237	0.3479	0.0100	16.4	20.0	-17.9	20.0
Ethyl methacrylate	Ave	0.2665	0.2364	0.1000	17.7	20.0	-11.3	20.0
1,1,2-Trichloroethane	Ave	0.2254	0.1966	0.1000	17.4	20.0	-12.8	20.0
Tetrachloroethene	Ave	0.4997	0.4164	0.2000	16.7	20.0	-16.7	20.0
1,3-Dichloropropane	Ave	0.3989	0.3452	0.1000	17.3	20.0	-13.5	20.0
2-Hexanone	Ave	(0.0480	0.0450*	0.0500	93.8	100	-6.2	20.0
n-Butyl acetate	Lin1		0.1968	0.1000	19.5	20.0	-2.7	20.0
Dibromochloromethane	Ave	0.2126	0.1780	0.1000	16.7	20.0	-16.3	20.0
1,2-Dibromoethane	Ave	0.2210	0.1944	0.1000	17.6	20.0	-12.0	20.0
1-Chlorohexane	Ave	0.4688	0.3724	0.1000	15.9	20.0	-20.6*	20.0
Chlorobenzene	Ave	1.080	0.9158	0.5000	17.0	20.0	-15.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3586	0.2941	0.1000	16.4	20.0	-18.0	20.0
Ethylbenzene	Lin2		1.508	0.1000	17.3	20.0	-13.5	20.0
m-Xylene & p-Xylene	Lin2		1.235	0.1000	17.8	20.0	-11.1	20.0
o-Xylene	Ave	1.478	1.249	0.3000	16.9	20.0	-15.5	20.0
Styrene	Ave	1.188	1.022	0.3000	17.2	20.0	-14.0	20.0

Lab	Name:	Eurofins	TestAmerica,	Buffalo	Job No.:	480-152241-1	
SDG	No.:						

Instrument ID: ICAP2 Method: 6010C

Start Date: 05/08/2019 10:14 End Date: 05/08/2019 15:14

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480-152241-2	1	D	14:15	X	Х	$\vdash \vdash$									_			-				Н	\vdash
480-152241-3	1	D	14:19	х	X	\vdash																\vdash	\vdash
CCV 480-472000/40	1		14:23	Х	Х	-			\vdash													\vdash	\vdash
CCB 480-472000/41	1		14:26	Х	X	\vdash																\vdash	-
CCVL 480-472000/42	1		14:30	X	Х			_			-	\vdash				_						┌╌┤	\vdash

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 05/08/2019 10:14 End Date: 05/08/2019 15:14

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CCVL 480-472000/53	+ -		15:14						\vdash	\vdash		\vdash			-	-	 	-	\vdash		\vdash

Prep Types

D = Dissolved

R = Total Recoverable

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1

SDG No.:

ICV Source: MEI_10_CCVL 00247 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00247

	ICVL 05/08		0-472000/ 019 10:30				0-472000/1 019 13:0		CCVL 05/0		-472000/3 019 13:45	
Analyte	Found	True	%R	Found	С	True	₽R	Found	С	True	%R	
Iron, Dissolved	0.0577		0.0500	115	0.0545		0.0500	109	0.0528		0.0500	106
Manganese, Dissolved	0.00352		0.00300	117	0.00344		0.00300	115	0.00346		0.00300	115

Note! Calculations are performed before rounding to avoid round-off errors in calculated results. Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1

SDG No.:

ICV Source: MEI_10_CCVL_00247 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00247

			-472000/4 019 14:3									
Analyte	Found	С	True	₹R	Found	С	True	₽R	Found	С	True	₽R
Iron, Dissolved	0.0530		0.0500	106			•					
Manganese, Dissolved	0.00347		0.00300	116								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results. Italicized analytes were not requested for this sequence.

Lab	Name:	Eurofins TestAmerica,	Buffalo	Job No.:	480-152241-1	
SDG	No.:					

Instrument ID: ICAP2 Method: 6010C

Start Date: 05/08/2019 10:14 End Date: 05/08/2019 17:27

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IC 480-472001/4			10:25	Х	Х																		T
ICV 480-472001/5	1		10:29	Х	Х						1									!			T
ICB 480-472001/6	1	<u> </u>	10:32	Х	Х																-		T
ICVL 480-472001/7	1		10:36	Х	Х																		T
ICSA 480-472001/8	1		10:40	Х	Х																		\top
ICSAB 480-472001/9	1		10:43	Х	Х																		
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CCV 480-472001/15			11:06																				
CCB 480-472001/16			11:09				11																
CCV 480-472001/17	1		14:23	Х	Х																		Г
CCB 480-472001/18	1		14:26	Х	X																		П
CCVL 480-472001/19	1		14:30	Х	Х																		
MB 480-470109/1-A	1	T	15:03	Х	Х																		
CCV 480-472001/21	1		15:07	X	X			-			- 1												
CCB 480-472001/22	1		15:11	Х	Х																		
CCVL 480-472001/23	1		15:14	Х	Х																		L
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CCV 480-472001/33	1		15:51	Х	Х					<u>_</u>											_		L
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Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 05/08/2019 10:14 End Date: 05/08/2019 17:27

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Lab Sample ID	D / F	T Y p e	Time	F e	M									12		4				
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CCV 480-472001/45	1		16:35	Х	Х				 	<u> </u>										
CCB 480-472001/46	1	21	16:38	Х	Х															П
CCVL 480-472001/47	1		16:42	Х	Х															П
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480-152241-1	1	T	16:57	Х	Х															
480-152241-2	1	T	17:01	Х	Х			1								1,7				
480-152241-3	1-	T	17:05	Х	Х		47													
CCV 480-472001/54	1		17:20	Х	Х															
CCB 480-472001/55	1		17:23	Х	Х													0	12	
CCVL 480-472001/56	1		17:27	Х	Х															

Prep Types
T = Total/NA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152241-1

SDG No.:

ICV Source: MEI_10_CCVL_00247 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00247

	CCVL 05/0		-472001/3 019 15:58		CCVL 05/0		-472001/4 019 16:4		CCVL 05/08		-472001/5 019 17:27	
Analyte	Found	С	True	₽R	Found	С	True	₽R	Found	С	True	₹R
Iron	0.0506		0.0500	101	0.0507		0.0500	101	0.0525		0.0500	105
Manganese	0.00343		0.00300	114	0.00348		0.00300	116	0.00347		0.00300	116

Note! Calculations are performed before rounding to avoid round-off errors in calculated results. Italicized analytes were not requested for this sequence.

∴ curofins

Chain of Custody Record

Eurofins TestAmerica, Buffalo

10 Hazelwood Drive

Amherst NY 14228-2298 Phone (715) 691-2600 Fax (716) 691-7991

pH 4 4 other (specify) Special Instructions/Note Bew-0 Months sre retained longer than 1 month) Ш OC No 480-129178-29154 480-152320 Chain of Custody Preservation Codes 0 Page Page 1 of 1 J-Urwaien K-EDTA L-EDA Archive For - Vis Total Number of containers Sate/Time defined of Shipment Sample Disposal (A fee may be assessed if samples of Return To Clent Disposal By Lab Tracking Not NON Analysis Requested Cooler Temperature(s) *C and Other Remarks BOLDC - (MOD) Dissolved Fe, Mn Special Instructions/OC Requirements DO ABHR - NITTED 008 - 80LZS E Mo!! oriette johnson@teslamericamc com 2 enexplO-4,1 - GL SM MIZ GOTS 110.4 - COD dece ved by Pacery 63 by BCBIVED by mishud - Gas_0 con Lab PM Johnson, Orlette S M M M S260C - (MOD) TCL US! OLMO4 2 MSMISD (Yes of No) Company AZCO.4 Type (recessor (Caccamp, Caccamp, er Water Water Water Water Preservation Code Water Water Water Water Water Water ompa's Radiological 252-258-216 Sample J 3) Sternderd Tax Orban 5220 4/22/19/102 Sample 4/22/19/1135 4/22/19 1135 ī Date 3 W22/h Unknown PO # Califout ID 136077 WG # (AT Requested (days): Due Date Requested 4/22/12 Sample Date 4/22/14 4/22/12 Project 8 48018841 SSOw# Sate/I-me Pouson B ジア Skin Imtant とれる 1-01- MS/MSi Deliverable Requested 1 II III(N)Other (specify) -20190722 Custody Seal No 2006102 257 West Genesee Street Suite 400 ١ Flammable Possible Hazard Identification SR-OCE BRWOI 212 juston app Insulator Site# 819017 george kısluk@aecom com mpty Kit Relinquished by 105 Custody Seals Intact
A Yes A No Client Information Sample Identification Non-Hazard BRV State Zuo NY, 14202-2657 Industred by dushed by George Kısluk rainshed by AECOM Buffalo

Curofins | Environment Testing | Festing N - None
O - Antacots
O - Antacots
Q - Na2SQ3
R - Na2SQ3
S - H2SO4
T - TSP Dodecalydrate
U - Acetone
W - PH 4-5
Z - other (specity) Company ALS Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyse & accreditation out subcontract laboratories. This sample stripment is forwarded under chain-of-custbdy. If the laboratory does not be subcontract laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica laboratories, inc. attendon immediately. If all requested accreditations are current to date, return the signed Chain of Custbdy attention to said complicance to TestAmerica Laboratories, inc. Special Instructions/Note: Ver: 01/16/2019 Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mor 480-152320-1 Preservation Codes A - HCL B - NaCH C - Zn Acelsta D - Nitric Acid E - NaHSO4 F - MeCH G - Amchlor G - Amchlor H - Ascorbic Acid I - Ice 04:30 XOC No: 180-49241.1 Page 1 of 1 Job#: J - DI Water K - EDTA L - EDA 04/27/19 Detertine enenistance to pedmuti jeto [÷ w. ķ n-'n e က 480-152320 Date/Time. Wethod of Shipment 2,3 New YORK Analysis Requested Cooler Temperature(s) *C and Other Remarks: Special Instructions/QC Requirements: Lab PM:
Johnson, Oriette S
E-Mail:
oriette_Johnson@testamericainc.com
Accreditations Required (See note):
NELAP - New York 5.5 aunu Return To Cilent Received by: Received by Chain of Custody Record × × × × × SEGOCIEDZOC TOL IISt OLMO4.2 在基本的工程的Con Jo on Jo gaming Time: Preservation Code. (waterix (water, onelid, Water Water Water Water Water Water -Water Company Туре (С=сощр. G=grab) Sample B MSD SΕ Primary Deliverable Rank: 1 Eastern 10:30 Fastem 11:35 Easten 11:35 Eastern 11:35 Eastern Eastern Eastern 08:50 Due Date Requested: 5/14/2019 TAT Requested (days): Sample Date 4/22/19 4/22/19 4/22/19 4/22/19 4/22/19 4/22/19 4/22/19 Project #: 48018841 SSOW#: Date/Time: hone ₩ ₩ ģ Deliverable Requested: I, II, III, IV, Other (specify) Client Information (Sub Contract Lab) Custody Seal No.: ال (Lab ID) المجالة: المجالة: Sample identification - Client ID Phone (716) 691-2600 Fax (716) 691-7991 815-726-0177(Tel) 615-728-3404(Fax) Possible Hazard Identification TB-20190422 (480-152320-5) estAmerica Laboratories, Inc FD-20190422 (480-152320-4) BRW-01 (480-152320-3MSD) 2960 Foster Creighton Drive, app Insulator Site# 819017 BRW-01 (480-152320-3MS) Empty Kit Relinquieted by: Amherst, NY 14228-2298 Custody Seals Intact:
A Yes A No SR-006 (480-152320-2) BRW-01 (480-152320-3) SR-105 (480-152320-1) 10 Hazelwood Drive Shipping/Receiving elinquished by: Unconfirmed State, Zip: TN, 37204 Nashville

Eurofins TestAmerica, Buffalo

Job Narrative 480-152320-1

Receipt

The samples were received on 4/22/2019 5:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 4.2° C.

GC/MS VOA

Method(s) 8260C: The following sample was diluted due to the nature of the sample matrix: SR-006 (480-152320-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The method blank for analytical batch 490-591225 contained 1,4-Dichlorobenzene, 1,3-Dichlorobenzene, lsopropylbenzene and Methylcyclohexane above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method(s) 8260C: The method blank for preparation batch 490-591225 contained 1,2,4-Trichlorobenzene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 490-591468 recovered outside control limits for the following analytes: 1,2-Dichloroethane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 490-591468 recovered outside control limits for the following analytes: 1,1,2-Trichloro-1,2,2-trifluoroethane and 1,2-Dichloroethane.

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

GC/MS Semi VOA

Method(s) 8270D SIM ID: The following samples were diluted to bring the concentration of target analytes within the calibration range: SR-105 (480-152320-1), SR-006 (480-152320-2), BRW-01 (480-152320-3), BRW-01 (480-152320-3[MSD]), BRW-01 (480-152320-4). Elevated reporting limits (RLs) are provided.

Method(s) 8270D SIM ID: The following samples were diluted due to the abundance of target analytes: BRW-01 (480-152320-3[MS]) and BRW-01 (480-152320-3[MSD]). Because of this dilution, the matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D SIM ID: The 1,4-Dioxane result reported for samples SR-006 (480-152320-2), BRW-01 (480-152320-3), BRW-01 (480-152320-3[MS]), BRW-01 (480-152320-3[MSD]) and FD-20190422 (480-152320-4) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

Method(s) 8270D SIM ID: The recovery of 1,4-Dioxane in the following sample was over the upper range of the initial calibration: SR-105 (480-152320-1). Re-analysis was performed at a higher dilution. Due to the level of dilution required, the IDA 1,4-Dioxane-d8 was diluted to a level that could not be detected; therefore, the recovery of 1,4-Dioxane could not be calculated. The results from the lower dilution have been qualified with an "E" flag and reported.

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

HPLC/IC

Method(s) 300.0: The following samples were analyzed outside of analytical holding time due to laboratory error: SR-105 (480-152320-1), SR-006 (480-152320-2), BRW-01 (480-152320-3), BRW-01 (480-152320-3[MSD]) and FD-20190422 (480-152320-4). The client has been notified and instructed to report the data.

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

Metals

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

General Chemistry

Method(s) SM 5210B: The glucose-glutamic acid standard recovered low outside the recovery limits specified in the method in batch 480-469403.

Method(s) SM 5210B: The following sample was analyzed outside of analytical holding time due to laboratory error: FD-20190422 (480-152320-4). The client has been notified and instructed to report the data.

Method(s) SM 5210B: Elevated reporting limits are provided for the following sample due to insufficient sample for preparation/analysis: FD-20190422 (480-152320-4). Raw result is 18.2 mg/L.

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

Organic Prep

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

VOA Prep

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

GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA CURVE EVALUATION FORM VI

Job No.: 480-152320-1 Lab Name: Eurofins TestAmerica, Nashville

Analy Batch No.: 582279

SDG No.:

Instrument ID: HP39

ID: 0.18 (mm) GC Column: ZB-624

Heated Purge: (Y/N) N

Calibration Start Date: 03/20/2019 16:25

Calibration End Date: 03/20/2019 20:17

Calibration ID: 74622

ANALYTE			RRF			CURVE		COEFFICIENT	ENT	# MIN RRF	RF &RSD	D # MAX	1	*	MIN R^2
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	TYPE	m	Œ	M2			*	SD OR COD		OR COD
	IVL 6	LVL 7	LVL 8	IVL 9	LVL 10										
1,1-Dichloroethene	0.3314	0.2562	0.2808	0.3348	0.3007	Ave		0.3093		0.1000	000		20.0	-	
Nontono	0.3130	0.3152	0.3056	0.3255	0.32/4					-	-+	1		-	
Acerone	0.0135	0.01/4	0.0138	0.0131	0.0132	Ave		0.0137	\sim	0.0100	100 11.0		20.0		
Iodomethane	0.4798	L	0.4181	0.5539	0.5135	Ave		0.5013		0.1000	000 11.5		20.0	-	
- 1	0.5514		0.5343	0.5275	0.5247										
Isopropyl alcohol	0.0062	0.0080	0.0083	0.0078	0.0077	Ave		0.0071		0.0010	Ξ.	5	20.0	_	
	0.0068	0.0062	0.0061	0.0065	0.0072	_									
Carbon disulfide	1.1293	0.7583	0.8423	0.9666	0.8400	Lin1	0.1920	0.7766		0.1000	000		0.9970		0.9900
3-Chloro-1-propene	+++++	+++++	0.2223	0.2700	0.3029	Lin1	-0.411	0.3472		0.1000	000		0.9940		0.9900
- 1	0.2023	0.2963	4.004	0.3329	++++	-					\rightarrow			+	
Methyl acetate	0.1070	0.1245	0.1326	0.1321	0.1159	Ave		0.1132		0.1000	000 12.3		20.0		
Acetonitrile	+++++	+++++	0.0110	0.0109	0.0100	Ave		0.0109		0.0010	5.8	L	20.0	-	
	0.0103	0.0105	0.0111	0.0113	0.0121										
Methylene Chloride	+++++	+++++	0.4540	0.4429	0.3947	Ave		0.3762		0.0100	100 13.2	-	20.0	-	
	0.3706	0.3340	0.3303	0.3414	0.3418								<u> </u>		
2-Methyl-2-propanol	+++++	1.1492	1.3006	1.8117	1.2670	Ave		1.4266		0.0010	010 14.6		20.0	-	
	1.4140		1.5082	1.5951	++++								1		
Methyl tert-butyl ether	0.8586		0.7278	0.8391	0.7373	Ave		0.7291		0.1000	9.6 000		20.02		
	0.7321			0.6659	0.6664										
trans-1,2-Dichloroethene	0.5915			0.5321	0.4552	Ave		0.4748		0.1000	000 11.2		20.0		
	0.4//3		0.4452	0.4636	0.4702						_				
ACIVIONICINE	0.0604	0.05/1	0.0549	0.0642	0.0615	Ave		0.0592		0.0100	100 6.6		20.0		
n-Hexane	0.4821			0.4741	0.4213	Ave		0.4269		0.1000	9.6 000		20.0		
	0.4230		0.4187	0.4483	0.4425										
Isopropyl ether	1.2988	1.0389	0.9544	1.0860	0.9688	Lin2	0.1878	0.9036		0.1000	000		0.9930	-	0.9900
Vinyl acetate	0.0708	_	0.0528	0.0608	0.0544	Ave		0.0557		* 0.1000	2 11 2	\pm	20.0	+	
	0.0557		0.0497	0.0542	0.0570					-			-		
1,1-Dichloroethane	0.6896	L.		0.6328	0.6676	Ave		0.6320		0.2000	5.3		20.0	-	
	0.6564			0.6326	0.6364										
2-Chloro-1,3-butadiene	0.6475			0.6059	0.5084	Ave		0.5391		0.1000	6 000		20.02		
	0.5204	0.5038	0.5024	0.5128	0.5110										
Tert-butyl ethyl ether	1.0219	0.9278	0.8713	1.0377	0.9050	Ave		0.9019		0.1000	9.4		20.02		
2 2-Di ah] anamana	0.3012		0.0211	0.0433	0.0300				i			+	1	-	
z,z-nicnioropropane	0.7549	0.5071	0.5260	0.6198	0.5441	Linl	0.0287	0.0287 0.5617		0.1000	000		0.9990		0.9900
	,			222.0	10000						-	-			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA CURVE EVALUATION FORM VI

Analy Batch No.: 582279 Job No.: 480-152320-1 Lab Name: Eurofins TestAmerica, Nashville SDG No.:

Instrument ID: HP39			GC Col	Column: ZB	ZB-624	10:		0.18 (mm)		Heated Purge:	Purge:	(X/N)	z	
Calibration Start Date: 03	03/20/2019 16:2	25	Calibr	libration E	End Date:		03/20/2019	19 20:17		Calibration		ID: 74622	22	
ANALYTE			RRF			CURVE	8	COEFFICIENT	#	MIN RRF	&RSD #	MAX	_	# MIN R^2
	LVL 1 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 J	LVL 5 LVL 10	TYPE	ф	M	M2			&RSD	OR COD	OR COD
cis-1,2-Dichloroethene	0.5311 (0.4166	0.5024	0.4365 7	Ave	0	0.4322		0.1000	11.2	20.0		
Ethyl acetate	1		0.0161	 		Ave	0	0.0205		0.0100	12.8	20.0		
2-Butanone (MEK)	+		0.0213		_	Ave	e,	0.0200		0.0100	6.8	20.0		
Propionitrile	 	1	0.0193	↓	+	Ave	10	0.0221		0.0100	7.0	20.0		
Methacrylonitrile	1	-	0.1034	_		Ave	0	0.1082		0.1000	11.6	20.0		
Chlorobromoethane	0.2459 (├	0.2314			Ave	0	0.2385		0.1000	7.3	20.0		
Tetrahydrofuran		-	0.0642		0.0615 7	Ave	0	0.0603		0.0500	9.5	20.0		
Chloroform	0.7400 (0.6466			Ave	0	0.6391		0.2000	80	20.0		
1,1,1-Trichloroethane		-	0.5986			Ave	0	0.5930		0.1000	9.8	20.0		
			0.5403		0.5194 A	Ave		0.5493		0.1000	5.0	20.0		
Carbon tetrachloride			0.4710	0.5637 (0.5112 A	Ave	0	0.5348		0.1000	8.9	20.0		
		1	0.4797		1	Ave	0,	0.5015		0.1000	8.1	20.0		
Isobutyl alcohol		-	0.0115	0.0124 (0.0107 A	Ave	0	0.0112		0.0010	6.6	20.0		
t-Amyl alcohol		-	0.0120	0.0141	0.0123 A	Ave	0	0.0123		0.0010	10.7	20.0		
			1.5266		1.5443 P	Ave	-	1.5278		0.5000	12.6	20.0		
Tert-amyl methyl ether		0.9000	692 178	L	0.9185 A	Ave	0	0.9116		0.1000	11.8	20.0		
1,2-Dichloroethane	0.5608 (Lin2 0.	0.0763 0	0.3815		0.1000			0.9940	0066.0
n-Heptane	0.3607	0.3226	0.2751			Ave	0	0.3461		0.1000	6.8	20.0		
n-Butanol		0.0030				Ave	0	0.0032		0.0010	6.7	20.0		
Trichloroethene	0.5580 (0.4323	0.4325	0.4984 (0.4500	Ave	0	0.4563		0.2000	9.1	20.0		

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA CURVE EVALUATION FORM VI

Analy Batch No.: 582279 Job No.: 480-152320-1 Lab Name: Eurofins TestAmerica, Nashville

Instrument ID: HP39 SDG No.:

Calibration Start Date: 03/20/2019 16:25

Calibration End Date: 03/20/2019 20:17 GC Column: ZB-624

Heated Purge: (Y/N) N Calibration ID: 74622 ID: 0.18 (mm)

LVL 2 LVL 3 LVL 3 LVL 7 LVL 7 LVL 8 LVL 7 LVL 8 LVL 8 0.2266 0.2397 0.2271 0.2215 0.5637 0.6037 0.3090 0.3090 0.1767 0.1768 0.1518 0.1508 0.1508 0.1508 0.1508 0.1508 0.1508 0.1508 0.1508 0.1508 0.1508 0.1508 0.1636 0.1508 0.1636 0.16	4 LVL 5 9 LVL 10	B M1 M2	*RSD	OR COD OR COD
acrylate ++++ 0.2266 0.2397 cyclohexane 0.7386 0.5255 0.5037 cyclohexane 0.7386 0.5255 0.5637 chloropropane 0.4304 0.3090 0.3399 chloropropane 0.1934 0.1767 0.1786 coxane ++++ 0.2090 0.1860 coxane 1.5630 0.1767 0.1788 ichloromethane 0.1633 0.1518 0.1636 ichloromethane 0.4758 0.4319 0.1806 oroethyl vinyl ether 0.1628 0.1502 0.1806 opropane 0.4511 0.4385 0.4319 oroethyl vinyl ether 0.1243 0.1836 0.1806 3-Dichloropropene 0.1243 0.1839 0.1806 3-Dichloropropene 0.1056 0.0997 0.0965 0.0966 iv 3-Dichloropropene 0.2072 0.2050 0.5198 0.3729 in 3-Dichloropropene 0.5209 0.3915 0.3729 oroethyl				
0.7386 0.5255 0.5637 0.5921 0.4304 0.6037 0.5921 0.4304 0.3090 0.3399 0.3392 0.3194 0.3075 +++++ 0.2090 0.1846 0.1934 0.1073 1.1846 +++++ 1.0273 1.1846 0.1628 0.1628 0.1628 0.1628 0.1631 0.1631 0.1632 0.1631 0.1632 0.1631 0.1632 0.1961 0.1672 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.1915 0.10914 0.1056 0.0997 0.0965 0.0999 0.1056 0.0997 0.0965 0.0999 0.1056 0.0997 0.0965 0.0997 0.0965 0.0997 0.0965 0.0997 0.0965 0.0997 0.0965 0.0997 0.0965 0.0997 0.0998 0.2998 0.2998	32 0.2352 Ave	0.2418	0.1000 6.7 20.0	
0.4304 0.3090 0.3399 0.3392 0.3194 0.3075 +++++ 0.2090 0.1860 0.1934 0.1767 0.1788 +++++ 1.0273 1.1846 1.5630 1.2450 1.0331 0.1633 0.1518 0.1636 0.4758 0.4301 0.4468 0.4758 0.4301 0.4163 0.2193 0.1502 0.1448 0.2193 0.1502 0.1448 0.1219 0.1639 0.0998 0.0997 0.0965 0.0998 0.0997 0.0965 0.0998 0.0901 0.0798 0.0775 2.2474 2.0395 1.9816 0.5209 0.3190 0.5209 0.3151 0.3729 0.4194 0.3292 0.3190 0.5209 0.3151 0.3298	<u> </u>	0.6114	0.1000 9.3 20.0	
H++++ 0.2090 0.1860 0.1934 0.1767 0.1788 +++++ 1.0273 1.1846 1.5630 1.2450 1.0331 0.1633 0.1518 0.1636 0.1633 0.1502 0.1448 0.4758 0.4301 0.4163 0.4511 0.4385 0.4319 0.2193 0.1961 0.1672 0.1915 0.1935 0.0999 0.0997 0.0965 0.0989 0.0997 0.0965 0.0989 0.1056 0.0897 0.0867 0.2474 0.5693 0.5494 0.5504 0.5804 0.5504 0.5804 0.5504 0.5209 0.3915 0.3729 0.4194 0.5528 0.2988	\vdash	0.3409	0.1000 11.0 20.0	
H++++ 1.0273 1.1846 1.5630 1.2450 1.0331 0.1633 0.1518 0.1636 0.1628 0.1518 0.1448 0.4758 0.4301 0.4448 0.4511 0.4385 0.04419 0.2193 0.1961 0.1672 0.1915 0.1839 0.1806 0.1915 0.1839 0.1806 0.1097 0.0965 0.0998 0.1243 0.1135 0.0998 0.1243 0.1135 0.0998 0.1243 0.1135 0.0998 0.1273 0.135 0.0967 0.7209 0.6643 0.6619 0.7209 0.6643 0.6619 0.7209 0.6691 0.0775 2.2474 2.0395 1.9816 0.6691 0.5494 0.5071 0.6691 0.5494 0.5071 0.6691 0.5494 0.3729 0.4194 0.3843 0.3737 0.3330 0.2985 0.2988	ŀ	0.1961	0.1000 9.6 20.0	
(A) 1633 0.1518 0.1636 0.1628 0.1502 0.1448 0.4511 0.4385 0.4319 0.2193 0.1965 0.4319 0.1915 0.1839 0.1806 0.1915 0.1839 0.1806 0.0997 0.0965 0.0998 0.0997 0.0965 0.0989 0.0901 0.0997 0.0867 0.2209 0.0998 0.0775 2.2474 2.0395 1.9816 0.5691 0.5594 0.5071 0.5209 0.3310 0.5553 0.5504 0.5209 0.3151 0.3298 0.3319	ļ	1.2487	0.0010 14.6 20.0	
0.4758 0.4301 0.4163 0.4511 0.4385 0.4319 0.12193 0.1961 0.1672 0.1915 0.1839 0.1806 0.0997 0.0989 0.0989 0.0917 0.0683 0.6819 0.7209 0.6863 0.6819 0.1056 0.0897 0.0867 0.0901 0.0798 0.0775 2.2474 2.0395 1.9816 0.6691 0.5434 0.5504 0.5209 0.3915 0.3729 0.4194 0.3843 0.3737 0.3330 0.2985 0.2988	39 0.1562 Ave	0.1585	0.0500 8.3 20.0	
(A) 10 10 10 10 10 10 10 10 10 10 10 10 10	↓	0.4491	0.2000 5.0 20.0	
(K) 0.1243 0.1135 0.0998 0.0997 0.0997 0.0965 0.0989 0.0117 0.6494 0.6619 0.07209 0.6897 0.0867 0.0867 0.0901 0.0901 0.0798 0.0775 2.7373 2.3057 2.2720 2.2474 2.0395 1.9816 0.5691 0.5594 0.5071 0.5209 0.3151 0.3729 0.3151 0.3785 0.2988 0.3330 0.2985 0.2988	14 0.1900 Ave 50 0.1937	0.1920	0.1000 7.7 20.0	
K) 0.8117 0.6494 0.6364 0.7209 0.6863 0.6819 0.1056 0.0897 0.0867 0.0901 0.0798 0.0775 2.7373 2.3057 2.2720 2.2474 2.0395 1.9816 0.6691 0.5494 0.5071 0.5840 0.5553 0.5504 0.5209 0.3915 0.3729 0.4194 0.3843 0.3737 0.3330 0.2922 0.3190	70 0.1006 Ave		0.0100 8.7 20.0	
(K) 0.1056 0.0897 0.0867 0.0901 0.0798 0.0775 2.7373 2.3057 2.2720 2.2474 2.0395 1.9816 0.6691 0.5494 0.5071 0.5840 0.5524 0.5504 0.4194 0.3843 0.3729 0.3330 0.2922 0.3190 0.3151 0.2985 0.2988	50 0.6690 Ave 74 0.6986	00.7007	0.2000 7.6 20.0	
2.7373 2.3057 2.2720 2.2474 2.0395 1.9816 0.6691 0.5494 0.5071 0.5209 0.5553 0.5504 0.4194 0.3843 0.3729 0.3330 0.2922 0.3190 0.3151 0.2985 0.2988	27 0.0877 Ave	0.0871	0.0500 9.6 20.0	
0.6691 0.5494 0.5071 0.5840 0.553 0.5504 0.5209 0.3915 0.3729 0.4194 0.3843 0.3737 0.3330 0.2922 0.3190 0.3151 0.2985 0.2988	39 2.1585 Ave 24 1.7180	2.1802	0.4000 13.2 20.0	
e 0.5209 0.3915 0.3729 0.4194 0.3843 0.3737 0.3330 0.2922 0.3190 0.3151 0.2988	75 0.5630 Ave	0.5776	0.0100 8.3 20.0	
hane 0.3330 0.2922 0.3190 0.3310 0.2988 0.2988	27 0.3908 Ave	0.4068	0.1000 11.2 20.0	
CONT. C. STON C. CONT. C.	L	0.3127	0.1000 7.5 20.0	
	55 0.5823 Ave	0.6029	0.2000 4.0 20.0	
1,3-Dichloropropane 0.6291 0.5216 0.5404 0.6434 0.5592 0.5181 0.5201 0.5191	34 0.5432 Ave	0.5521	0.1000 8.4 20.0	
0.0924 0.0809 0. 0.0776 0.0709 0.	36 0.0784 Ave	0.0786	0.0500 8.9 20.0	
0.4170 0.2888 0.2927 0.3029 0.2866 0.2669	31 0.3111 Lin2 12 0.2943	12 0.0510 0.2886	0.1000	0.9900 0096.0
Dibromochloromethane 0.3237 0.2795 0.2900 0.3280 0.3170 0.3091 0.3131	30 0.2957 Ave	0.3082	0.1000 5.3 20.0	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM V GC/MS VOA INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152320-1

SDG No.:

Lab File ID: 043019-01.D

BFB Injection Date: 04/30/2019

Instrument ID: HP39

BFB Injection Time: 09:59

Analysis Batch No.: 591468

M/E	ION ABUNDANCE CRITERIA	· · · · · · · · · · · · · · · · · · ·	ELATIVE NDANCE
50	15.0 - 40.0 % of mass 95	18.1	
75	30.0 - 60.0 % of mass 95	50.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.3	(0.3) 1
174	50.0 - 120.00 % of mass 95	98.6	
175	5.0 - 9.0 % of mass 174	7.8	(7.9) 1
176	95.0 - 101.0 % of mass 174	98.7	(100.2) 1
177	5.0 - 9.0 % of mass 176	6.0	(6.0) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-591468/2	043019-02.D	04/30/2019	10:25
15	LCS 490-591468/3	043019-03.D	04/30/2019	10:51
	LCSD 490-591468/4	043019-04.D	04/30/2019	11:17
	MB 490-591468/5	043019-05.D	04/30/2019	11:43
BRW-01	480-152320-3	043019-18.D	04/30/2019	17:21
FD-20190422	480-152320-4	043019-19.D	04/30/2019	17:47
SR-006	480-152320-2	043019-20.D	04/30/2019	18:13
BRW-01 MS	480-152320-3 MS	043019-24.D	04/30/2019	19:57
BRW-01 MSD	480-152320-3 MSD	043019-25.D	04/30/2019	20:23

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152320-1

SDG No.:

Lab Sample ID: CCVIS 490-591468/2 Calibration Date: 04/30/2019 10:25

Instrument ID: HP39 Calib Start Date: 03/20/2019 16:25

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 03/20/2019 20:17

Lab File ID: 043019-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propene	Ave	0.3476	0.1996	0.1000	11.5	20.0	-42.6*	20.0
Dichlorodifluoromethane	Ave	0.4093	0.4076	0.1000	19.9	20.0	-0.4	20.0
Chloromethane	Ave	0.4315	0.3433	0.1000	15.9	20.0	-20.4*	20.0
Vinyl chloride	Ave	0.4196	0.3368	0.1000	16.1	20.0	-19.7	20.0
Butadiene	Ave	0.3829	0.2992	0.1000	15.6	20.0	-21.9*	20.0
Bromomethane	Ave	0.2325	0.2486	0.1000	21.4	20.0	6.9	20.0
Chloroethane	Lin2		0.2199	0.1000	17.5	20.0	-12.4	20.0
Dichlorofluoromethane	Ave	0.6262	0.5752	0.1000	18.4	20.0	-8.1	20.0
Trichlorofluoromethane	Ave	0.5901	0.5931	0.1000	20.1	20.0	0.5	20.0
Ethanol	Ave	0.0005	0.0006*	0.0010	868	800	8.5	20.0
Ethyl ether	Ave	0.2020	0.1943	0.1000	19.2	20.0	-3.8	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2837	0.2895	0.1000	20.4	20.0	2.0	20.0
Acrolein	Ave	0.0216	0.0184	0.0100	42.0	49.4	-15.0	20.0
1,1-Dichloroethene	Ave	0.3093	0.3191	0.1000	20.6	20.0	3.2	20.0
Acetone	Ave	0.0137	0.0130	0.0100	94.7	100	-5.3	20.0
Iodomethane	Ave	0.5013	0.5848	0.1000	23.3	20.0	16.7	20.0
Isopropyl alcohol	Ave	0.0071	0.0076	0.0010	213	200	6.7	20.0
Carbon disulfide	Linl		0.8438	0.1000	21.5	20.0	7.4	20.0
3-Chloro-1-propene	Lin1		0.2519	0.1000	15.7	20.0	-21.5*	20.0
Methyl acetate	Ave	0.1132	0.0945*	0.1000	33.4	40.0	-16.5	20.0
Acetonitrile	Ave	0.0109	0.0088	0.0010	161	200	-19.5	20.0
Methylene Chloride	Ave	0.3762	0.3159	0.0100	16.8	20.0	-16.0	20.0
2-Methyl-2-propanol	Ave	1.427	1.197	0.0010	168	200	-16.1	20.0
Methyl tert-butyl ether	Ave	0.7291	0.7334	0.1000	20.1	20.0	0.6	20.0
trans-1,2-Dichloroethene	Ave	0.4748	0.4383	0.1000	18.5	20.0	-7.7	20.0
Acrylonitrile	Ave	0.0592	0.0556	0.0100	188	200	-6.1	20.0
n-Hexane	Ave	0.4269	0.3954	0.1000	18.5	20.0	-7.4	20.0
Isopropyl ether	Lin2		0.8046	0.1000	17.6	20.0	-12.0	20.0
1,1-Dichloroethane	Ave	0.6320	0.5915	0.2000	18.7	20.0	-6.4	20.0
Vinyl acetate	Ave	0.0557	0.0577*	0.1000	41.4	40.0	3.5	20.0
2-Chloro-1,3-butadiene	Ave	0.5391	0.5122	0.1000	19.0	20.0	-5.0	20.0
Tert-butyl ethyl ether	Ave	0.9019	0.8534	0.1000	18.9	20.0	-5.4	20.0
2,2-Dichloropropane	Linl		0.6003	0.1000	21.3	20.0	6.6	20.0
cis-1,2-Dichloroethene	Ave	0.4322	0.4243	0.1000	19.6	20.0	-1.8	20.0
2-Butanone (MEK)	Ave	0.0200	0.0206	0.0100	103	100	2.7	20.0
Ethyl acetate	Ave	0.0205	0.0220	0.0100	42.8	40.0	7.0	20.0
Propionitrile	Ave	0.0221	0.0221	0.0100	200	200	0.2	20.0
Methacrylonitrile	Ave	0.1082	0.0990*	0.1000	183	200	-8.5	20.0
Chlorobromomethane	Ave	0.2385	0.2523	0.1000	21.2	20.0	5.8	20.0
Tetrahydrofuran	Ave	0.0603	0.0551	0.0500	36.5	40.0	-8.7	20.0

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152320-1

SDG No.:

Lab Sample ID: CCVIS 490-591468/2 Calibration Date: 04/30/2019 10:25

Instrument ID: HP39 Calib Start Date: 03/20/2019 16:25

GC Column: ZB-624 ID: 0.18 (mm) Calib End Date: 03/20/2019 20:17

Lab File ID: 043019-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloroform	Ave	0.6391	0.6482	0.2000	20.3	20.0	1.4	20.0
1,1,1-Trichloroethane	Ave	0.5930	0.6225	0.1000	21.0	20.0	5.0	20.0
Cyclohexane	Ave	0.5493	0.4909	0.1000	17.9	20.0	-10.6	20.0
1,1-Dichloropropene	Ave	0.5015	0.4674	0.1000	18.6	20.0	-6.8	20.0
Carbon tetrachloride	Ave	0.5348	0.5690	0.1000	21.3	20.0	6.4	20.0
Isobutyl alcohol	Ave	0.0112	0.0097	0.0010	436	500	-12.8	20.0
t-Amyl alcohol	Ave	0.0123	0.0138	0.0010	225	200	12.6	20.0
Benzene	Ave	1.528	1.477	0.5000	19.3	20.0	-3.3	20.0
Tert-amyl methyl ether	Ave	0.9116	0.9052	0.1000	19.9	20.0	-0.7	20.0
1,2-Dichloroethane	Lin2		0.4391	0.1000	22.8	20.0	14.1	20.0
n-Heptane	Ave	0.3461	0.2903	0.1000	16.8	20.0	-16.1	20.0
n-Butanol	Ave	0.0032	0.0040	0.0010	622	500	24.3*	20.0
Trichloroethene	Ave	0.4563	0.4486	0.2000	19.7	20.0	-1.7	20.0
Ethyl acrylate	Ave	0.2418	0.2274	0.1000	18.8	20.0	-6.0	20.0
Methylcyclohexane	Ave	0.6114	0.5801	0.1000	19.0	20.0	-5.1	20.0
1,2-Dichloropropane	Ave	0.3409	0.3017	0.1000	17.7	20.0	-11.5	20.0
Methyl methacrylate	Ave	0.1961	0.1755	0.1000	35.8	40.0	-10.5	20.0
1,4-Dioxane	Ave	1.249	1.145	0.0010	367	400	-8.3	20.0
Dibromomethane	Ave	0.1585	0.1579	0.0500	19.9	20.0	-0.4	20.0
Bromodichloromethane	Ave	0.4491	0.4661	0.2000	20.8	20.0	3.8	20.0
2-Chloroethyl vinyl ether	Ave	0.1920	0.1777	0.1000	18.5	20.0	-7.4	20.0
2-Nitropropane	Ave	0.1064	0.1037	0.0100	39.0	40.0	-2.5	20.0
cis-1,3-Dichloropropene	Ave	0.7007	0.6597	0.2000	18.8	20.0	-5.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0871	0.0702	0.0500	80.6	100	-19.4	20.0
Toluene	Ave	2.180	1.911	0.4000	17.5	20.0	-12.3	20.0
trans-1,3-Dichloropropene	Ave	0.5776	0.5335	0.0100	18.5	20.0	-7.6	20.0
Ethyl methacrylate	Ave	0.4068	0.3511	0.1000	17.3	20.0	-13.7	20.0
1,1,2-Trichloroethane	Ave	0.3127	0.2863	0.1000	18.3	20.0	-8.5	20.0
Tetrachloroethene	Ave	0.6029	0.5660	0.2000	18.8	20.0	-6.1	20.0
1,3-Dichloropropane	Ave	0.5521	0.4639	0.1000	16.8	20.0	-16.0	20.0
2-Hexanone	Ave	0.0786	0.0638	0.0500	81.2	100	-18.8	20.0
n-Butyl acetate	Lin2		0.2080	0.1000	14.2	20.0	-28.8*	20.0
Dibromochloromethane	Ave	0.3082	0.2876	0.1000	18.7	20.0	-6.7	20.0
1,2-Dibromoethane	Ave	0.3106	0.2835	0.1000	18.3	20.0	-8.7	20.0
1-Chlorohexane	Ave	0.5398	0.4428	0.1000	16.4	20.0	-18.0	20.0
Chlorobenzene	Ave	1.405	1.299	0.5000	18.5	20.0	-7.5	20.0
Ethylbenzene	Ave	2.311	2.118	0.1000	18.3	20.0	-8.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5201	0.4794	0.1000	18.4	20.0	-7.8	20.0
m-Xylene & p-Xylene	Ave	1.827	1.656	0.1000	18.1	20.0	-9.4	20.0
o-Xylene	Ave	1.847	1.663	0.3000	18.0	20.0	-10.0	20.0
Styrene	Ave	1.548	1.391	0.3000	18.0	20.0	-10.1	20.0

FORM V GC/MS VOA INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152320-1

SDG No.:

Lab File ID: 042919-01.D BFB Injection Date: 04/29/2019

Instrument ID: HP39 BFB Injection Time: 09:57

Analysis Batch No.: 591225

M/E	ION ABUNDANCE CRITERIA		LATIVE IDANCE
50	15.0 - 40.0 % of mass 95	15.8	
75	30.0 - 60.0 % of mass 95	52.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.1	(0.1) 1
174	50.0 - 120.00 % of mass 95	96.3	
175	5.0 - 9.0 % of mass 174	7.0	(7.3) 1
176	95.0 - 101.0 % of mass 174	92.4	(96.0) 1
177	5.0 - 9.0 % of mass 176	6.8	(7.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-591225/2	042919-02.D	04/29/2019	10:23
	LCS 490-591225/3	042919-03.D	04/29/2019	10:49
	LCSD 490-591225/4	042919-04.D	04/29/2019	11:15
	MB 490-591225/8	042919-08.D	04/29/2019	12:59
TB-20190422	480-152320-5	042919-21.D	04/29/2019	18:37
SR-105	480-152320-1	042919-23.D	04/29/2019	19:29

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152320-1

SDG No.:

Lab Sample ID: CCVIS 490-591225/2 Calibration Date: 04/29/2019 10:23

Instrument ID: HP39 Calib Start Date: 03/20/2019 16:25

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 03/20/2019 20:17

Lab File ID: 042919-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propene	Ave	0.3476	0.2445	0.1000	14.1	20.0	-29.6*	20.0
Dichlorodifluoromethane	Ave	0.4093	0.5200	0.1000	25.4	20.0	27.0*	20.0
Chloromethane	Ave	0.4315	0.3679	0.1000	17.1	20.0	-14.7	20.0
Vinyl chloride	Ave	0.4196	0.3810	0.1000	18.2	20.0	-9.2	20.0
Butadiene	Ave	0.3829	0.3572	0.1000	18.7	20.0	-6.7	20.0
Bromomethane	Ave	0.2325	0.2810	0.1000	24.2	20.0	20.8*	20.0
Chloroethane	Lin2		0.2425	0.1000	19.3	20.0	-3.3	20.0
Dichlorofluoromethane	Ave	0.6262	0.6180	0.1000	19.7	20.0	-1.3	20.0
Trichlorofluoromethane	Ave	0.5901	0.6964	0.1000	23.6	20.0	18.0	20.0
Ethanol	Ave	0.0005	0.0003*	0.0010	483	800	-39.7*	20.0
Ethyl ether	Ave	0.2020	0.1816	0.1000	18.0	20.0	-10.1	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2837	0.2666	0.1000	18.8	20.0	-6.0	20.0
Acrolein	Ave	0.0216	0.0170	0.0100	38.9	49.4	-21.3*	20.0
1,1-Dichloroethene	Ave	0.3093	0.3321	0.1000	21.5	20.0	7.4	20.0
Acetone	Ave	0.0137	0.0126	0.0100	91.9	100	-8.1	20.0
Iodomethane	Ave	0.5013	0.6099	0.1000	24.3	20.0	21.7*	20.0
Isopropyl alcohol	Ave	0.0071	0.0048	0.0010	134	200	-33.1*	20.0
Carbon disulfide	Lin1		0.8686	0.1000	22.1	20.0	10.6	20.0
3-Chloro-1-propene	Lin1		0.2981	0.1000	18.4	20.0	-8.2	20.0
Methyl acetate	Ave	0.1132	0.0990*	0.1000	35.0	40.0	-12.5	20.0
Acetonitrile	Ave	0.0109	0.0076	0.0010	139	200	-30.3*	20.0
Methylene Chloride	Ave	0.3762	0.3429	0.0100	18.2	20.0	-8.9	20.0
2-Methyl-2-propanol	Ave	1.427	1.380	0.0010	194	200	-3.2	20.0
Methyl tert-butyl ether	Ave	0.7291	0.7424	0.1000	20.4	20.0	1.8	20.0
trans-1,2-Dichloroethene	Ave	0.4748	0.4638	0.1000	19.5	20.0	-2.3	20.0
Acrylonitrile	Ave	0.0592	0.0544	0.0100	184	200	-8.0	20.0
n-Hexane	Ave	0.4269	0.3533	0.1000	16.5	20.0	-17.3	20.0
Isopropyl ether	Lin2		0.9002	0.1000	19.7	20.0	-1.4	20.0
1,1-Dichloroethane	Ave	0.6320	0.6159	0.2000	19.5	20.0	-2.6	20.0
Vinyl acetate	Ave	0.0557	0.0576*	0.1000	41.3	40.0	3.3	20.0
2-Chloro-1,3-butadiene	Ave	0.5391	0.5516	0.1000	20.5	20.0	2.3	20.0
Tert-butyl ethyl ether	Ave	0.9019	0.9193	0.1000	20.4	20.0	1.9	20.0
2,2-Dichloropropane	Linl		0.6264	0.1000	22.3	20.0	11.3	20.0
cis-1,2-Dichloroethene	Ave	0.4322	0.4290	0.1000	19.9	20.0	-0.7	20.0
Ethyl acetate	Ave	0.0205	0.0223	0.0100	43.4	40.0	8.5	20.0
2-Butanone (MEK)	Ave	0.0200	0.0209	0.0100	104	100	4.3	20.0
Propionitrile	Ave	0.0221	0.0207	0.0100	188	200	-6.1	20.0
Chlorobromomethane	Ave	0.2385	0.2572	0.1000	21.6	20.0	7.8	20.0
Methacrylonitrile	Ave	0.1082	0.0966*	0.1000	179	200	-10.7	20.0
Tetrahydrofuran	Ave	0.0603	0.0528	0.0500	35.0	40.0	-12.5	20.0

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152320-1

SDG No.:

Lab Sample ID: CCVIS 490-591225/2 Calibration Date: 04/29/2019 10:23

Instrument ID: HP39 Calib Start Date: 03/20/2019 16:25

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 03/20/2019 20:17

Lab File ID: 042919-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloroform	Ave	0.6391	0.6820	0.2000	21.3	20.0	6.7	20.0
1,1,1-Trichloroethane	Ave	0.5930	0.6238	0.1000	21.0	20.0	5.2	20.0
Cyclohexane	Ave	0.5493	0.4459	0.1000	16.2	20.0	-18.8	20.0
1,1-Dichloropropene	Ave	0.5015	0.5035	0.1000	20.1	20.0	0.4	20.0
Carbon tetrachloride	Ave	0.5348	0.5706	0.1000	21.3	20.0	6.7	20.0
Isobutyl alcohol	Ave	0.0112	0.0078	0.0010	351	500	-29.9*	20.0
Benzene	Ave	1.528	1.522	0.5000	19.9	20.0	-0.4	20.0
t-Amyl alcohol	Ave	0.0123	0.0112	0.0010	184	200	-8.2	20.0
Tert-amyl methyl ether	Ave	0.9116	0.8927	0.1000	19.6	20.0	-2.1	20.0
1,2-Dichloroethane	Lin2		0.4469	0.1000	23.2	20.0	16.1	20.0
n-Heptane	Ave	0.3461	0.2469	0.1000	14.3	20.0	-28.7*	20.0
n-Butanol	Ave	0.0032	0.0024	0.0010	371	500	-25.7*	20.0
Trichloroethene	Ave	0.4563	0.4769	0.2000	20.9	20.0	4.5	20.0
Ethyl acrylate	Ave	0.2418	0.2369	0.1000	19.6	20.0	-2.0	20.0
Methylcyclohexane	Ave	0.6114	0.4966	0.1000	16.2	20.0	-18.8	20.0
1,2-Dichloropropane	Ave	0.3409	0.3113	0.1000	18.3	20.0	-8.7	20.0
Methyl methacrylate	Ave	0.1961	0.1858	0.1000	37.9	40.0	-5.2	20.0
1,4-Dioxane	Ave	1.249	1.132	0.0010	363	400	-9.3	20.0
Dibromomethane	Ave	0.1585	0.1648	0.0500	20.8	20.0	4.0	20.0
Bromodichloromethane	Ave	0.4491	0.4857	0.2000	21.6	20.0	8.2	20.0
2-Chloroethyl vinyl ether	Ave	0.1920	0.1819	0.1000	19.0	20.0	-5.2	20.0
2-Nitropropane	Ave	0.1064	0.1047	0.0100	39.4	40.0	-1.6	20.0
cis-1,3-Dichloropropene	Ave	0.7007	0.7188	0.2000	20.5	20.0	2.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0871	0.0757	0.0500	86.9	100	-13.1	20.0
Toluene	Ave	2.180	2.089	0.4000	19.2	20.0	-4.2	20.0
trans-1,3-Dichloropropene	Ave	0.5776	0.5862	0.0100	20.3	20.0	1.5	20.0
Ethyl methacrylate	Ave	0.4068	0.3569	0.1000	17.5	20.0	-12.3	20.0
1,1,2-Trichloroethane	Ave	0.3127	0.3041	0.1000	19.5	20.0	-2.7	20.0
Tetrachloroethene	Ave	0.6029	0.5551	0.2000	18.4	20.0	-7.9	20.0
1,3-Dichloropropane	Ave	0.5521	0.5180	0.1000	18.8	20.0	-6.2	20.0
2-Hexanone	Ave	(0.0786	0.0653	0.0500	83.0	100	-17.0	20.0
n-Butyl acetate	Lin2		0.2225	0.1000	15.2	20.0	-23.8*	20.0
Dibromochloromethane	Ave	0.3082	0.3397	0.1000	22.0	20.0	10.2	20.0
1,2-Dibromoethane	Ave	0.3106	0.3050	0.1000	19.6	20.0	-1.8	20.0
1-Chlorohexane	Ave	0.5398	0.4105	0.1000	15.2	20.0	-24.0*	20.0
Chlorobenzene	Ave	1.405	1.376	0.5000	19.6	20.0	-2.0	20.0
Ethylbenzene	Ave	2.311	2.117	0.1000	18.3	20.0	-8.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5201	0.5070	0.1000	19.5	20.0	-2.5	20.0
m-Xylene & p-Xylene	Ave	1.827	1.649	0.1000	18.1	20.0	-9.7	20.0
o-Xylene	Ave	1.847	1.706	0.3000	18.5	20.0	-7.6	20.0
Styrene	Ave	1.548	1.443	0.3000	18.6	20.0	-6.8	20.0

Lab Name: Eurofins TestAmerica, Nashville Job No.: 480-152320-1

SDG No.:

Lab Sample ID: CCVIS 490-591225/2 Calibration Date: 04/29/2019 10:23

Instrument ID: HP39 Calib Start Date: 03/20/2019 16:25

GC Column: ZB-624 ID: 0.18 (mm) Calib End Date: 03/20/2019 20:17

Lab File ID: 042919-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromoform	Ave	0.2447	0.2352	0.0100	19.2	20.0	-3.9	20.0
Isopropylbenzene	Ave	2.256	1.954	0.1000	17.3	20.0	-13.4	20.0
Cyclohexanone	Ave	0.0048	0.0039	0.0010	162	200	-18.9	20.0
Bromobenzene	Ave	1.071	1.076	0.1000	20.1	20.0	0.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5739	0.5467	0.3000	19.1	20.0	-4.7	20.0
N-Propylbenzene	Ave	4.517	4.028	0.1000	17.8	20.0	-10.8	20.0
1,2,3-Trichloropropane	Ave	0.1949	0.2056	0.1000	21.1	20.0	5.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1738	0.1914	0.1000	22.0	20.0	10.1	20.0
4-Ethyltoluene	Ave	2.750	1.897	0.1000	13.8	20.0	-31.0*	20.0
2-Chlorotoluene	Ave	3.217	2.917	0.1000	18.1	20.0	-9.3	20.0
1,3,5-Trimethylbenzene	Ave	3.397	3.012	0.1000	17.7	20.0	-11.3	20.0
4-Chlorotoluene	Ave	2.724	2.636	0.1000	19.4	20.0	-3.2	20.0
tert-Butylbenzene	Ave	2.971	2.479	0.1000	16.7	20.0	-16.6	20.0
1,2,4-Trimethylbenzene	Ave	3.286	2.887	0.1000	17.6	20.0	-12.1	20.0
sec-Butylbenzene	Ave	3.825	3.158	0.1000	16.5	20.0	-17.4	20.0
4-Isopropyltoluene	Ave	3.443	2.920	0.1000	17.0	20.0	-15.2	20.0
1,3-Dichlorobenzene	Ave	1.832	1.679	0.6000	18.3	20.0	-8.3	20.0
Dicyclopentadiene	Ave	4.784	2.832	0.1000	11.8	20.0	-40.8*	20.0
1,4-Dichlorobenzene	Ave	1.837	1.675	0.5000	18.2	20.0	-8.8	20.0
1,2,3-Trimethylbenzene	Ave	3.281	2.970	0.1000	18.1	20.0	-9.5	20.0
Benzyl chloride	Ave	0.6556	0.7068	0.0100	21.6	20.0	7.8	20.0
n-Butylbenzene	Ave	2.527	2.045	0.1000	16.2	20.0	-19.1	20.0
1,2-Dichlorobenzene	Ave	1.643	1.528	0.4000	18.6	20.0	-7.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1200	0.1258	0.0100	21.0	20.0	4.9	20.0
1,3,5-Trichlorobenzene	Ave	1.084	0.8101	0.1000	14.9	20.0	-25.3*	20.0
1,2,4-Trichlorobenzene	Ave	0.8079	0.6180	0.2000	15.3	20.0	(-23.5*	20.0
Hexachlorobutadiene	Ave	0.4126	0.2714	0.1000	13.2	20.0	-34.2*	20.0
Naphthalene	Ave	1.587	1.493	0.0100	18.8	20.0	-5.9	20.0
1,2,3-Trichlorobenzene	Ave	0.6315	0.4884	0.1000	15.5	20.0	-22.7*	20.0
2-Methylnaphthalene	Ave	0.6238	0.5928	0.0100	19.0	20.0	-5.0	20.0
1-Methylnaphthalene	Ave	0.4971	0.4419	0.1000	17.8	20.0	-11.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2262	0.2374		26.2	25.0	4.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2292	0.2425		26.4	25.0	5.8	20.0
Toluene-d8 (Surr)	Ave	1.257	1.217		24.2	25.0	-3.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8068	0.8274		25.6	25.0	2.6	20.0

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

IC 480-472000/2 IC 480-472000/3 IC 480-472000/4 ICV 480-472000/5 ICB 480-472000/6	D / F	T Y P e	Time	Fe	M							A	nal	.yt	es								
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CCV 480-472000/15			11:06																				
CCB 480-472000/16			11:09																				
CCV 480-472000/17	1		12:53	Х	Х																		
CCB 480-472000/18	1		12:57	Х	Х	-																	
CCVL 480-472000/19	1		13:01	Х	Х																		
MB 480-470105/1-A	1	R	13:08	Х	Х		\dashv									-							\vdash
LCS 480-470105/2-A	1	R	13:12	Х	Х		\dashv																
480-152320-1	1	D	13:15	Х	Х									_									
480-152320-2	1	D	13:19	Х	Х																	_	
480-152320-3	1	D	13:23	Х	Х		_										L						
480-152320-3 SD	5	D	13:26	Х	Х					-													
480-152320-3 PDS	1	D	13:30	Х	Х																		
480-152320-3 MS	1	D	13:34	Х	Х		-	\neg															
CCV 480-472000/28	1		13:38	Х	Х	+					\vdash												
CCB 480-472000/29	1		13:41	Х	Х									\neg					-				
CCVL 480-472000/30	1		13:45	Х	Х	\rightarrow	\dashv																<u> </u>
480-152320-3 MSD	1	D	13:49	Х	Х	\dashv	\dashv		-														<u> </u>
	1	D	13:52	Х	Х																		
22222			13:56			$\overline{}$					\vdash		\dashv										
22222	_		14:00			+	-						_							\neg			
ZZZZZZ			14:04			_		\neg				-	-										
ZZZZZZ			14:07			\rightarrow	\dashv																
ZZZZZZ	-		14:11				\dashv																
22222	+		14:15			-+	+		-			-	-		\dashv	\dashv				-			
ZZZZZZ			14:19		\vdash	-	\dashv	-	\dashv		-							\vdash					
	1		14:23	Х	Х			-								_					-		
	1		14:26	Х	Х	+					-	+	-								-		
	ī	-	14:30	Х	Х				-													-	

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 05/08/2019 10:14 End Date: 05/08/2019 15:14

											A	nal	yt	es					
Lab Sample ID	D / F	T Y P e	Time	F e	M														
ZZZZZZ			14:34			T	T	Ť	Ī	Ť						Γ			
ZZZZZZ			14:37			\dagger	_	\top											
ZZZZZZ			14:41			T			\top										
ZZZZZZ	İ		14:45			T		\top	\top										
ZZZZZZ			14:49			Ť		1	\top										
ZZZZZZ			14:52			T													
ZZZZZZ			14:56					1											
ZZZZZZ			15:00														9		
CCV 480-472000/51			15:07			T		T											
CCB 480-472000/52			15:11			T				_									
CCVL 480-472000/53			15:14			T													

Prep Types

D = Dissolved

R = Total Recoverable

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1

SDG No.:

ICV Source: MEI_10_CCVL_00247 Concent

Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00247

	ICVL 05/0		0-472000/ 019 10:3		CCVL 05/08		-472000/1 019 13:0		CCVL 05/0		-472000/3)19 13:4!	
Analyte	Found	С	True	₽R	Found	С	True	₹R	Found	С	True	₹R
Iron, Dissolved	0.0577		0.0500	115	0.0545		0.0500	109	0.0528		0.0500	106
Manganese, Dissolved	0.00352		0.00300	117	0.00344		0.00300	115	0.00346		0.00300	115

Note! Calculations are performed before rounding to avoid round-off errors in calculated results. Italicized analytes were not requested for this sequence.

Lab	Name:	Eurofins	TestAmerica,	Buffalo	Job No.:	480-152320-1	
SDG	No.:						
TCV	Source	e: MEI 10	CCVL 00247		Concentr	ation Units: mg/L	

CCV Source: MEI_10_CCVL_00247

	1		-472000/4 019 14:30									
Analyte	Found	С	True	%R	Found	С	True	%R	Found	С	True	%R
Iron, Dissolved	0.0530		0.0500	106								
Manganese, Dissolved	0.00347		0.00300	116								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results. Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 05/13	/2019	11:	52			- End	Da	te:		05/	13/	20	19	19	:17							_
					-						Ar	nal	yte	es				_				_
				F	M n																	
Lab Sample ID	D / F	T Y p e	Time			:																
ICIS 480-472702/1	1		11:52	Х	Х																	I
IC 480-472702/2			11:56	X	Х		T															L
IC 480-472702/3			12:00	Х	Х																	
IC 480-472702/4			12:03	Х	Х																	L
ICV 480-472702/5	1		12:07	Х	Х																	
ICB 480-472702/6	1		12:10	Х	Х															9		\perp
ICVL 480-472702/7	1		12:14	Х	Х																	L
ICSA 480-472702/8	1		12:18	Х	Х																	L
ICSAB 480-472702/9	1		12:22	Х	Х																	
ZZZZZZ			12:25																			
ZZZZZZ			12:29	1																		
ZZZZZZ			12:33	1-																		
ZZZZZZ			12:37																			Г
ZZZZZZ			12:40																			Τ
CCV 480-472702/15	 		12:44	+						1												Γ
CCB 480-472702/16	+		12:48	1-			T															T
CCV 480-472702/17	1		16:12	X	х		1															
CCB 480-472702/18	1		16:15	X	Х					1												T
CCVL 480-472702/19	1		16:19	Х	х				-						_							T
MB 480-470921/1-A	1	Т	16:45	Х	х		+	_	\vdash													T
LCS 480-470921/2-A	1	T	16:49	X	х		+	-		1										-		\uparrow
480-152320-1	1	T	16:52	X	Х		1	-		1			_		_		 					\uparrow
CCV 480-472702/23	1		16:56	X	х		+			+					_		_					t
CCB 480-472702/24	1		17:00	Х	Х	-	+											 				t
CCVL 480-472702/25	1		17:03	X	х	-	+		-	+								1			_	†
480-152320-2	1	T	17:07	X	Х		+	\vdash		+												\dagger
480-152320-3	1	T	17:11	Х	Х	_	+		-	\vdash	\vdash				-				-		_	†
480-152320-3 SD	5	T	17:15	X	х	-+	+	-	-	\vdash	\vdash			-					 		 	+
480-152320-3 PDS	1	T	17:18	X	x		+	 		\vdash			-	-	\vdash			1	_			t
480-152320-3 MS	1	T	17:22	X	X	_	+	-	-	+			-	-	-		-	<u> </u>		\vdash	-	\dagger
480-152320-3 MSD	1	T	17:26	X	х	-	+		-	-			-	-		_	+-	-	\vdash		-	+
480-152320-3 M3D	1	T	17:29	X	X		+	-	-	 		-	_				-			-	\vdash	+
ZZZZZZ	1	-	17:33			-	+	-		+-						-	\vdash	-			-	+
22222			17:37			-	+	-	-				-			-	-	-		\vdash	-	+
CCV 480-472702/35	1	-	17:37	х	Х	_	+			-				-		-	-			-	-	+
CCB 480-472702/36	1		17:41	X	X		-	-	-	+			_	-	-	-	-		-		-	+
CCVL 480-472702/37	1	-	17:44	X	X	-	-	-						-	-	-	+	-	\vdash	-		+
	1			^_	^		+	-	-	-			_	-		-	-	-			-	+
ZZZZZZ			17:52	_	\sqcup		+	-	-					-	_	-		-	-	-	-	+
ZZZZZZ			17:55					<u> </u>	<u> </u>	-				_		-	<u> </u>	-			-	+
ZZZZZZ			17:59				_	-	_	\vdash			ļ				-	<u> </u>	-	-	-	+
ZZZZZZ			18:03				_	-	<u> </u>	-				<u> </u>		<u> </u>	_	<u> </u>	<u> </u>	_	-	+
ZZZZZZ			18:07						L_					<u> </u>	L	<u> </u>	1		<u> </u>		_	\perp

 Lab Name:
 Eurofins TestAmerica, Buffalo
 Job No.:
 480-152320-1

 SDG No.:
 Instrument ID: ICAP2
 Method: 6010C

 Start Date: 05/13/2019 11:52
 End Date: 05/13/2019 19:17

									A	nal	yt	es				
Lab Sample ID	D / F	T Y P e	Time	F e	M					25						
ZZZZZZ	Ī		18:10													
ZZZZZZ	 		18:14													
ZZZZZZ	1		18:18													
ZZZZZZ			18:21													
CCV 480-472702/47			18:25													
CCB 480-472702/48			18:29													
CCVL 480-472702/49			18:32													
ZZZZZZ			18:36													Ш
ZZZZZZ			18:40													
ZZZZZZ			18:44													
ZZZZZZ		_	18:47													
ZZZZZZ			18:51													
CCV 480-472702/55			19:09													
CCB 480-472702/56			19:13											L		
CCVL 480-472702/57			19:17													

Prep Types

T = Total/NA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1

SDG No.:
ICV Source: MEI_10_CCVL_00248

Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00248

FORM II-IN

			0-472702/ 019 12:1		4		-472702/1 019 16:19		CCVL 05/13		-472702/2 019 17:03	
Analyte	Found	С	True	%R	Found	С	True	%R	Found	С	True	%R
Iron	0.0538	<u> </u>	0.0500	108	0.0512		0.0500	102	0.0516		0.0500	103
Manganese	0.00344		0.00300	115	0.00337		0.00300(112	0,00343		0.00300	114

Note! Calculations are performed before rounding to avoid round-off errors in calculated results. Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1

SDG No.:

ICV Source: MEI_10_CCVL_00248

Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00248

			-472702/3 019 17:48									
Analyte	Found	С	True	%R	Found	С	True	%R	Found	С	True	%R
Iron	0.0531		0.0500	106		i						
Manganese	0.00344		0.00300	115)						<u></u>	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results. Italicized analytes were not requested for this sequence.

7A-IN LAB CONTROL SAMPLE GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-152320-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C Unit	Spike P Amount R	ct. ec. Limits	RPD Limit	Q
Batch	ID: 469819	Date: 04/25/2019 16:10		ĹC	S Source: IC	ANTON LCS 00	255	
300.0	LCS 480-469819/3	Sulfate	47.94	mg/L	_	96 90-110		
Batch	ID: 469822	Date: 04/25/2019 16:10						
				LC	S Source: IC_	ANION_LCS00	255	
300.0	LCS 480-469822/3	Nitrate as N	4.91	mg/L	5.00	98 90-110		
Batch	ID: 473299	Date: 05/16/2019 10:51						
				LC	S Source: COD	25 ppm_00034		
410.4	LCS 480-473299/4	Chemical Oxygen Demand	26.11	mg/L	25.0	104 90-110		
Batch	ID: 473299	Date: 05/16/2019 10:51						
				LC	S Source: COD	25 ppm_00034		
410.4	LCS 480-473299/76	Chemical Oxygen Demand	25.12	mg/L	25.0	100 90-110		
Batch	ID: 473310	Date: 05/16/2019 12:22						
					S Source: COD	-		
410.4	480-473310/4	Chemical Oxygen Demand	27.10	mg/L	25.0	108 90-110		
Batch	ID: 473310	Date: 05/16/2019 12:22						
					S Source: COD	-		
410.4	LCS 480-473310/52	Chemical Oxygen Demand	27.43	mg/L	25.0	110 90-110		
Batch	ID: 469403	Date: 04/24/2019 02:47				-		
				LC	S Source: GGA	00010		
SM 5210B	LCS 480-469403/2	Biochemical Oxygen Demand	151.4	mg/L	198	76 85-115		*
Batch	ID: 471504	Date: 05/07/2019 02:15						
				LC	S Source: GGA	_00010		
SM 5210B	LCS 480-471504/2	Biochemical Oxygen Demand	212.3	mg/L	198	107 85-115	-	

Calculations are performed before rounding to avoid round-off errors in calculated results.

ATTACHMENT 4

INVESTIGATION DERIVED WASTE DISPOSAL DOCUMENTATION

(pending)