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SCS ENGINEERS

March 24, 2017
File No. 25216186.00

Mr. Doug Cieslak
Wisconsin Department of Natural Resources
141 NW Barstow St., Room 180
Waukesha, WI 53188

Subject: Site Investigation Update
Arctic Laundry & Cleaners (former)
5619 22nd Avenue, Kenosha, Wisconsin
BRRTS #02-30-245843

Dear Mr. Cieslak:

SCS Engineers (SCS) is providing the following summary of recent site investigation work performed for the Arctic Laundry & Cleaners project site located at 5619 22nd Avenue, Kenosha, Wisconsin (**Figure 1** and **Figure 2**).

A release of dry cleaning solvent tetrachloroethene (PCE) occurred at the subject property while operating as the Arctic Laundry & Cleaners. Soil and groundwater contamination was identified in 1994. Based on February 2017 sampling results, PCE remains in soil at concentrations in excess of the groundwater pathway standard, but at concentrations which are not considered a human direct contact threat. Solvent also remains in groundwater, but at concentrations which do not exceed the drinking water standard.

February 2017 sub-slab vapor sampling results for the subject property building show a potential for solvent vapor to migrate into indoor at concentrations that could pose a health risk. However, indoor air sample results indicate that solvent vapors are not present in indoor air on the first or second floors of the building at concentrations that would pose a health risk. Trichloroethene (TCE), a degradation product of PCE, was detected in the basement indoor air sample at a concentration indicating a potential health risk for a residential setting, but not for a commercial setting.

Based on the recent sampling results, SCS recommends vapor assessment at two neighboring buildings and assessment of a vapor mitigation system for the source property building.

BACKGROUND

The subject property was formerly operated as a dry cleaning facility and is located in an area of mixed commercial and residential properties. The property is occupied by a two-story building with a basement, first floor commercial spaces, and second floor residential apartment.

According to the Wisconsin Department of Natural Resources (WDNR), spent dry cleaning solvent had been discharged to ground surface behind (east of) the facility up until sometime in 1984 and a dry cleaning solvent spill, which reached a basement floor sump, had occurred inside the facility in February 1994. On May 4, 1994, the WDNR sent a "responsible party" letter to the property owner requiring investigation and cleanup of the spent solvent.

Soil and groundwater contamination, consistent with a dry cleaning solvent release, was identified during prior investigation activities performed by Sigma Environmental Services, Inc. (Sigma) in August 1994. Sigma's initial work included installation and sampling of one direct-push (DP) soil boring (GP-1). The extent of the contamination was further delineated by Sigma in October 1995 by installing and sampling five additional DP soil borings (GP-2 through GP-6). Sigma's boring locations are shown on **Figure 2**.

Investigation findings were summarized in Sigma's reports dated October 26, 1994, and December 14, 1995. Sigma reported that chlorinated volatile organic compounds (CVOCs) were detected in soil and/or groundwater to the east and north of the subject property building.

CVOCs including PCE and cis-1, 2-dichloroethylene (cis-1,2-DCE) were detected in soil at concentrations up to 2,700 micrograms per kilogram. Only PCE exceeded an NR 720 residual contaminant level (RCL) and this was for the groundwater pathway RCL. CVOC soil concentrations did not exceed direct contact RCLs.

CVOCs including PCE, TCE, and cis-1,2-DCE were detected in groundwater at concentrations up to 50 micrograms per liter. Only PCE was detected in excess of an NR 140 groundwater enforcement standard (ES).

RECENT SITE INVESTIGATION

SCS completed recent site investigation activities consistent with SCS's October 25, 2016 Site Investigation Work Plan and follow-up communications with the WDNR. Work included installation and sampling of soil borings and groundwater monitoring wells as well as a vapor assessment for the source property building. The field work was performed in February 2017.

Soil and Groundwater Sampling

Methods

On February 6, 2017, SCS oversaw installation of eight DP borings (GP-7 through GP-11 and MW-1 through MW-3), which were advanced to a depth of 15 feet below ground surface (bgs). The DP drilling rig was operated by On-site Environmental Services, Inc. (On-site) of Sun Prairie, Wisconsin. Boring locations are shown on **Figure 2**. Boring logs and borehole abandonment forms are included in **Attachment A**.

Soil from each boring was analyzed for volatile organic compounds (VOCs) in the field using a hand-held photoionization detector (PID). SCS collected two soil samples from each boring for laboratory analysis. The samples were selected based on PID readings and visual observation of the soil. Groundwater grab samples were also collected from borings GP-7 through GP-11 for laboratory analysis. The samples were properly containerized and preserved, and then transported under chain of custody to TestAmerica of Chicago, Illinois, for analysis of VOCs via laboratory method 8260B.

Two-inch-diameter groundwater monitoring wells were constructed at the MW-1 through MW-3 boring locations using hollow-stem augers. Each well was constructed with 10-foot PVC well screens and riser pipe, a locking well plug, and flush mount protective well casing. The wells were constructed and developed consistent with NR 141 standards. SCS surveyed the top of each well casing to mean sea level. Well construction and development forms are included in **Attachment A**.

On February 21, 2017, SCS measured water levels and collected a groundwater sample from each monitoring well for laboratory analysis of VOCs. The samples were properly containerized and preserved, and then transported to TestAmerica of Chicago, Illinois, under chain of custody for analysis of VOCs via laboratory method 8260B.

Investigation-derived waste, including soil cuttings, monitoring well development water, and monitoring well sampling purge water, was containerized for disposal. Monitoring well development water was transported to the Madison Metropolitan Sewerage District (MMSD) for discharge. MMSD disposal documentation is included in **Attachment B**. Soil cuttings from the DP borings and monitoring well installation and monitoring well sampling purge water were contained in 55-gallon steel drums and left on site for future disposal.

Findings

Site soils include up to 5 feet of sandy fill underlain by clay or silt to a maximum investigation depth of 15 feet bgs. Groundwater was observed within silt soil at a depth of approximately 9 feet bgs.

Soil and groundwater laboratory analytical reports are included in **Attachment C** and summarized in **Table 1** and **Table 2**. The sampling results indicate that PCE remains in soil at concentrations in excess of WDNR's groundwater pathway residual contaminant level (RCL). The PCE concentrations do not exceed WDNR's non-industrial direct contact RCL. The estimated extent of PCE in soil is shown on **Figure 3**.

VOCs were not detected in groundwater samples collected from borings GP-7 through GP-11, and VOCs were not detected in excess of an ES in any of the monitoring well samples. PCE was detected in only the sample from downgradient monitoring well MW-3 at a concentration above the preventative action limit, but below the ES.

Water levels measured at each monitoring well are summarized in **Table 5** and were used to create the water table map included as **Figure 4**. Groundwater flow is to the northwest at a gradient of approximately 0.02.

Vapor Assessment

Methods

On February 6, 2017, SCS set up 24-hour indoor air and outdoor (background) Summa canisters at the subject property building. The sample locations are shown on **Figure 2**. One canister was placed on each level of the building, including the basement, first floor, and second floor. The background air canister was set outside the east side of the building. Vapor assessment sample collection logs are included in **Attachment D**.

On February 7, 2017, SCS collected the indoor and background air sampling canisters and sampled the building sub-slab. Three sub-slab vapor probes (SS-1 through SS-3) were installed through the basement slab and sampled over a 30-minute period. SCS's sampling manifold, tubing, fittings, and the sub-slab probe seals were verified to have no leaks prior to sampling each probe. The sub-slab sample locations were selected based on access and sub-slab conditions. Vapor assessment sample collection logs are included in **Attachment D**.

All vapor assessment samples were properly containerized and transported to Pace Analytical Services, LLC of Minneapolis, Minnesota, under chain of custody for analysis of VOCs via method TO-15.

Findings

SCS observed that the basement slab is relatively thin and that underlying sub-slab material may be saturated by groundwater within a few inches under the slab. This is consistent with the basement depth and the depth to groundwater observed in site monitoring wells (approximately 9 feet bgs).

Vapor assessment laboratory reports are included in **Attachment E** and summarized in **Table 3** and **Table 4**. VOCs were detected in all indoor air samples, but only TCE in the basement indoor air sample was detected at a concentration in excess of WDNR's residential indoor air vapor action level (VAL). All sub-slab samples show PCE and TCE at concentrations in excess of WDNR commercial vapor risk screening levels (VRSLs).

Basement Sump

As required by WDNR, SCS inspected the basement floor sump inside the source property building (**Figure 2**). The sump is located in approximately the middle of the basement. Photos are included in **Attachment F**.

Water (assumed to be groundwater) was observed in the sump during the above-noted vapor assessment sampling. An electric sump pump was present in the sump and connected to PVC piping, which appeared to discharge to ground surface outside the east end of the building. SCS observed the pump in operation at least once during the vapor assessment sampling.

SUMMARY

Based on the recent sampling results, PCE remains in soil at concentrations in excess of the groundwater pathway RCL, but not in excess of the residential direct contact RCL. VOCs do not appear to remain in groundwater at concentrations in excess of ESs. It is likely that the building foundation, asphalt pavement, and relatively low permeability clay and silt soils have limited the leaching of VOCs from the soil into groundwater.

Based on vapor assessment sampling results, VOCs are not present in excess of residential indoor VALs in the building first floor, second floor, or background air. TCE was detected in the basement indoor air sample at a concentration in excess of the residential VAL, but did not exceed the commercial VAL. Sub-slab CVOC concentrations exceed commercial VRSLs and suggest a potential vapor intrusion risk.

RECOMMENDATIONS

SCS recommends the following additional work:

- Evaluate options for a mitigation system to address the elevated sub-slab vapor concentrations at the source property building. A typical sub-slab ventilation system may not be feasible due to a relatively shallow water table.
- Conduct vapor assessments for the neighboring buildings at 5605 and 5621 22nd Avenue to assess the potential for vapor intrusion.

Please feel free to contact Robert Langdon at (608) 216-7329 if you have any questions or comments concerning our proposed program.

Sincerely,

Robert Langdon
Senior Project Manager
SCS ENGINEERS

Ray Tierney, PG
Vice President
SCS ENGINEERS

REL/lmh/RT

cc: Roy Baietto
Vanessa Wishart, Stafford Rosenbaum LLP (e-copy)
Paul Kent, Stafford Rosenbaum LLP (e-copy)

Attachments:
Table 1 – Soil Analytical Results Summary
Table 2 – Groundwater Analytical Results Summary
Table 3 – Indoor Air Analytical Results Summary
Table 4 – Sub-Slab Vapor Analytical Results Summary
Table 5 – Water Level Summary
Figure 1 – Site Location Map
Figure 2 – Site Features Map
Figure 3 – Soil Contamination
Figure 4 – Water Table Map February 21, 2017
Attachment A – Field Forms
Attachment B – Disposal Documentation
Attachment C – Soil and Groundwater Laboratory Reports
Attachment D – Vapor Sample Collection Logs
Attachment E – Vapor Assessment Laboratory Reports
Attachment F – Photos of Sump

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TABLES

Table 1. Soil Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
(Results are in µg/kg)

Sample	Date	Depth (feet)	PID (ppm)	Lab Notes	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC	Other VOCs
GP-1	8/23/1994	1-3	0.0	--	**79**	<1	<1	<1	<3	o-Xylene 1.4
	8/23/1994	5-7	44.5	--	**2,700**	<1	<1	<1	<3	ND
GP-2	10/20/1995	7-9	0.8	--	<1	<1	<1	<1	<3	ND
GP-3	10/20/1995	7-9	0.0	--	<1	<1	<1	<1	<3	n-Butylbenzene 1.3
GP-4	10/20/1995	9-11	0.0	--	<1	**7.9**	24 B1, F1	<1	<3	ND
GP-5	10/20/1995	11-13	0.0	--	<1	<1	<1	<1	<3	ND
GP-6	10/20/1995	13-15	0.0	--	<1	<1	<1	<1	<3	ND
GP-7	2/6/2017	0-2	0.5	(1)	<45	<20	<49	<42	<32	ND
	2/6/2017	5-7.5	0.7	(1)	<34	<15	<37	<32	<24	ND
GP-8	2/6/2017	2.5-5	0.4	(1)	**170**	<17	<43	<37	<27	ND
	2/6/2017	5-7.5	0.5	(1)	**1,100**	<19	<48	<41	<31	ND
GP-9	2/6/2017	2.5-5	0.5	(1)	<37	<16	<41	<35	<26	ND
	2/6/2017	5-7.5	0.5	(1)	<43	<19	<47	<40	<30	ND
GP-10	2/6/2017	2.5-5	1.2	(1)	**850**	<15	<36	<31	<23	ND
	2/6/2017	5-7.5	1.1	(1)	**3,200**	<16	<40	<35	<26	ND
GP-11	2/6/2017	0-2.5	1.5	(1)	**15,000**	<15	<37	<32	<24	ND
	2/6/2017	5-7.5	2.1	(1)	**17,000**	<14	<34	<30	<22	ND
MW-1	2/6/2017	2.5-5	0.5	(1)	<34	<15	<37	<32	<24	ND
	2/6/2017	5-7.5	0.4	(1)	<61	<27	<67	<57	<43	ND
MW-2	2/6/2017	2.5-5	1.5	(1)	**510**	<15	<37	<32	<24	ND
	2/6/2017	5-7.5	1.5	(1)	**130**	<16	<41	<35	<26	ND

Table 1. Soil Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
(Results are in µg/kg)

Sample	Date	Depth (feet)	PID (ppm)	Lab Notes	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC	Other VOCs
MW-3	2/6/2017	0-2.5	1.6	(1)	**3,200**	<60	<150	<130	<95	ND
	2/6/2017	5-7.5	2.9	(1)	**3,000**	<14	<36	<31	<23	ND
NR 720 Groundwater Pathway RCLs with a Wisconsin-Default Dilution Factor of 2					4.5	3.6	41.2	62.6	0.1	n-Butylbenzene NE Xylenes (m-, o-, p-combined) 3,960
NR 720 Non-Industrial Direct Contact RCLs					30,700	1,260	156,000	1,560,000	67	n-Butylbenzene 108,000 Xylenes (m-, o-, p-combined) 260,000
NR 720 Industrial Direct Contact RCLs					153,000	8,810	2,040,000	1,850,000	2,030	n-Butylbenzene 108,000 Xylenes (m-, o-, p-combined) 260,000
CAS No.					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	Xylenes: 1330-20-7 n-Butylbenzene: 104-51-8

Abbreviations:
µg/kg = micrograms per kilogram or parts per billion (ppb)
ppm = PID measured in ppm as isobutylene
PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
NE = Not Established
VOCs = Volatile Organic Compounds
VC = Vinyl Chloride
CAS No. = Chemical Abstracts Service Number
NA = Not Analyzed
-- = Not Applicable

Notes:
Bold+underlined values exceed NR 720 Residual Contaminant Levels (RCLs).
NR 720 values are taken from Wisconsin Department of Natural Resources June 2016 RCL Spreadsheet.

8/23/1994 and 10/20/1995 samples collected by Sigma Environmental Services, Inc., of Oak Creek, WI
2/6/2017 samples collected by SCS Engineers of Madison, WI

Laboratory Notes/Qualifiers:
B1 = SW 8021 quality control criteria not met. Initial calibration check standard recovery 121%. Acceptable range is 85%-115%. Sample result may be correspondingly high.
F1 = SW 8021 quality control criteria not met. Final calibration check standard recovery 117%. Acceptable range is 85%-115%. Sample result may be correspondingly high.
(1) Dichlorodifluoromethane = LCS or LCSD is outside acceptance limits.

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Table 2. Groundwater Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
(Results are in µg/L)

Sample	Date	Lab Notes	PCE	TCE	VC	cis-1,2-DCE	trans-1,2-DCE	Other VOCs
GP-1	8/25/1994	--	**42.0**	*1.0*	<3	<1	<1	Toluene *7.2*
GP-2	10/20/1995	--	**13**	<1.0	<3.0	<1.0	<1.0	ND
GP-3	10/20/1995	--	**50**	<1.0	<3.0	<1.0	<1.0	ND
GP-4	10/20/1995	--	**14**	*2.2*	<3.0	6.2	<1.0	ND
GP-5	10/26/1995	--	<1.0	<1.0	<3.0	<1.0	<1.0	ND
GP-6	10/26/1995	--	<1.0	<1.0	<3.0	<1.0	<1.0	ND
GP-7	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
GP-8	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
GP-9	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
GP-10	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
GP-11	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
MW-1	2/21/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
MW-2	2/21/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	1,2-Dichloropropane *1.3*
	2/21/2017 (DUP)	--	<0.37	<0.16	<0.20	<0.41	<0.35	1,2-Dichloropropane *1.2*
MW-3	2/21/2017	--	*1.5*	<0.16	<0.20	<0.41	<0.35	ND

Table 2. Groundwater Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
(Results are in µg/L)

Sample	Date	Lab Notes	PCE	TCE	VC	cis-1,2-DCE	trans-1,2-DCE	Other VOCs	
Trip Blank	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND	
	2/21/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND	
NR 140 Enforcement Standards (ESs)			*5*	*5*	0.2	70	100	Toluene	800
								1,2-Dichloropropane	*5*
NR 140 Preventive Action Limits (PALs)			0.5	0.5	0.02	*7*	20	Toluene	160
								1,2-Dichloropropane	0.5

Abbreviations:
µg/L = micrograms per liter or parts per billion (ppb)
VC = Vinyl Chloride
NA = Not Analyzed
DCE = Dichloroethene
TCE = Trichloroethene
ND = Not Detected
PCE = Tetrachloroethene
VOCs = Volatile Organic Compounds
-- = Not Applicable

Notes:
NR 140 ESs - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from July 2015.
NR 140 PALs - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from July 2015.
Bold+underlined values meet or exceed NR 140 ESs.
Italic+underlined values meet or exceed NR 140 PALs.

8/23/1994, 10/20/1995, and 10/26/1995 samples collected by Sigma Environmental Services, Inc., of Oak Creek, WI
2/6/2017 and 2/21/2017 samples collected by SCS Engineers of Madison, WI

Laboratory Notes/Qualifiers:
None

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Table 3. Indoor Air Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
(Results are in ppbV)

Sample/Location	Date	Lab Notes	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
Basement	2/7/2017	--	5.6	**1**	5	<0.15	<0.12
1st Floor	2/7/2017	--	1.3	0.31	1.2	<0.15	<0.12
2nd Floor	2/7/2017	--	1.1	0.22	0.84	<0.16	<0.13
Outdoor	2/7/2017	--	1.8	<0.075	<0.092	<0.14	<0.11
Indoor Air Vapor Action Level (Residential Building)			6.2	0.39	NE	NE	0.65
Indoor Air Vapor Action Level (Commercial Building)			27	1.6	NE	NE	11

Abbreviations:
ppbV = parts per billion by volume
cis-1,2-DCE = cis-1,2-dichloroethylene
trans-1,2-DCE = trans-1,2-dichloroethylene
NE = not established

Notes:
1. Samples were collected in 6-liter summa canisters over a 24-hour period and analyzed using the USEPA TO-15 analytical method.
2. Vapor Action Levels are from Wisconsin Department of Natural Resources Quick Look-Up Table, which is based on May 2016 USEPA Regional Screening Level Tables.
3. **Bold** & **underlined** values exceed Indoor Air Vapor Action Levels.

Lab Notes:
None

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Table 4. Sub-Slab Vapor Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
(Results are in ppbV)

Sample/Location	Date	Lab Notes	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
SS-1	2/7/2017	--	**418,000** A3, E	**1,290** A3	5.7	5.8	<0.14
SS-2	2/7/2017	--	**973**	**66.5**	1.7	11.8	<0.13
SS-3	2/7/2017	--	**26,100** A3	**86.4** A3	1.4	0.5	<0.14
Vapor Risk Screening Level (Residential Building)			210	13	NE	NE	22
Vapor Risk Screening Level (Small Commercial Building)			900	53	NE	NE	370

Abbreviations:
ppbV = parts per billion by volume
trans-1,2-DCE = trans-1,2-dichloroethylene
cis-1,2-DCE = cis-1,2-dichloroethylene
NE = not established
-- = not applicable

Notes:
1. Samples were collected in 6-liter summa canisters over a 30-minute period and analyzed using the USEPA TO-15 analytical method.
2. Vapor Action Levels or Vapor Risk Screening Levels are from Wisconsin Department of Natural Resources Quick Look-Up Table, which is based on May 2016 USEPA Regional Screening Level Tables.
3. **Bold+underlined** values meet or exceed Vapor Risk Screening Levels.

Lab Notes:
A3 = The sample was analyzed by serial dilution.
E = Analyte concentration exceeded the calibration range. The reported result is estimated.

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Table 5. Water Level Summary
Former Arctic Laundry & Cleaners / SCS Engineers Project #25216186.00

Raw Data	Depth to Water in feet below top of well casing		
	MW1	MW2	MW3
Measurement Date			
February 21, 2017	8.53	9.67	8.04

Well Number	Ground Water Elevation in feet above mean sea level (amsl)		
	MW1	MW2	MW3
Top of Casing Elevation (feet amsl)	623.65	623.68	623.29
Screen Length (ft)	10.00	10.00	10.00
Total Depth (ft from top of casing)	13.85	14.00	13.85
Top of Well Screen Elevation (ft)	619.80	619.68	619.44
Measurement Date			
February 21, 2017	615.12	614.01	615.25
Bottom of Well Elevation (ft)	609.80	609.68	609.44

Notes:
NM = not measured
Benchmark of 625.93 feet above mean sea level marked by "X" on the top side of the hose outlet of the fire hydrant located at the northeast corner of 22nd Avenue and 57th Street.

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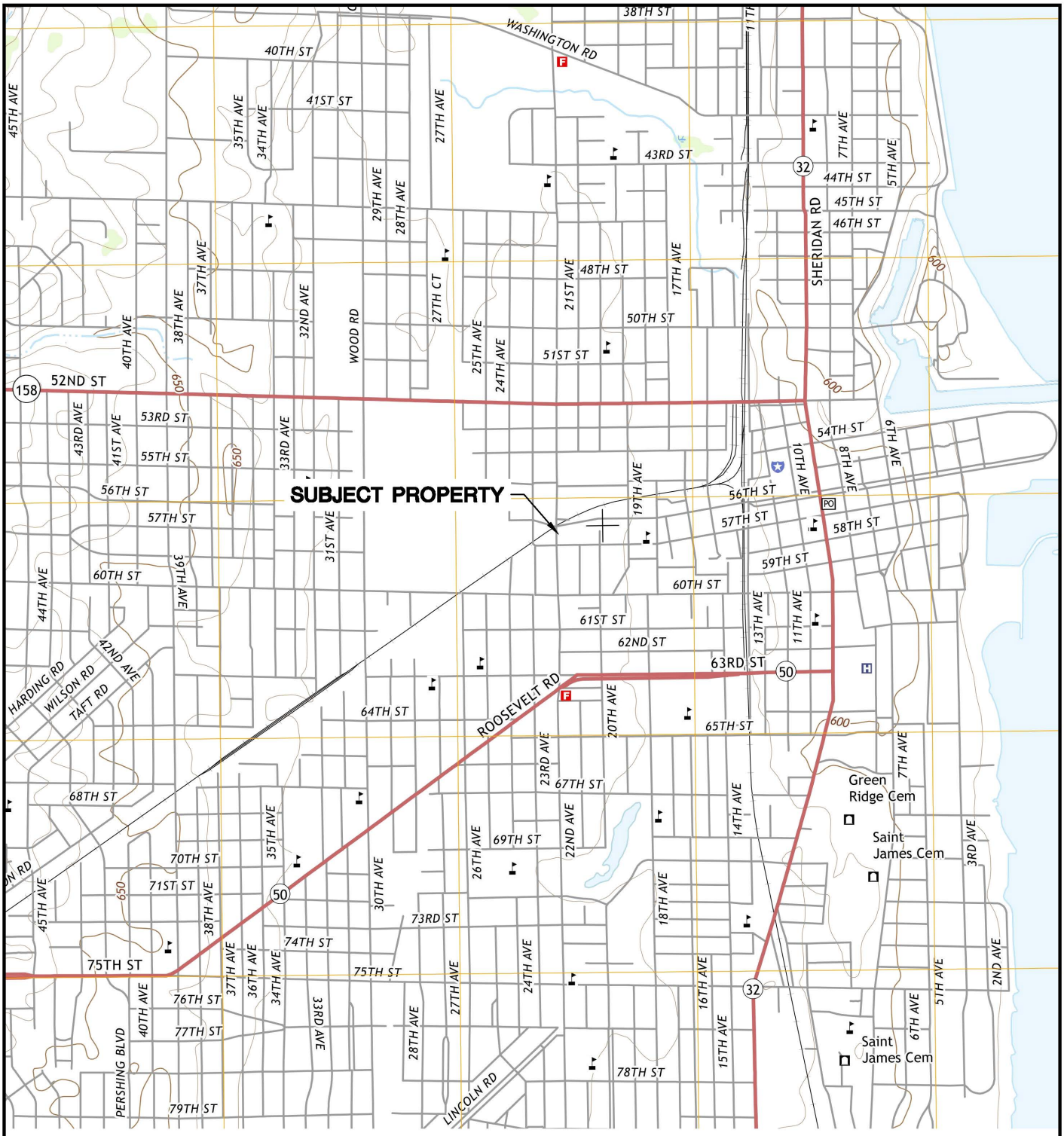
FIGURES



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KENOSHA QUADRANGLE
WISCONSIN–KENOSHA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
7.5' QUADRANGLE
2016
SCALE: 1" = 2,000'

CLIENT	STAFFORD ROSENBAUM, LLP. 222 WEST WASHINGTON AVENUE MADISON, WI 53701	SITE	ARCTIC LAUNDRY AND CLEANERS 5619 22ND AVENUE KENOSHA, WISCONSIN

SITE LOCATION MAP

PROJECT NO.	25216186.00	DRAWN BY:	KP
DRAWN:	10/21/16	CHECKED BY:	REL
REVISED:	10/21/16	APPROVED BY:	REL 10/24/16

ENGINEER

SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718–6751
PHONE: (608) 224–2830

FIGURE
1

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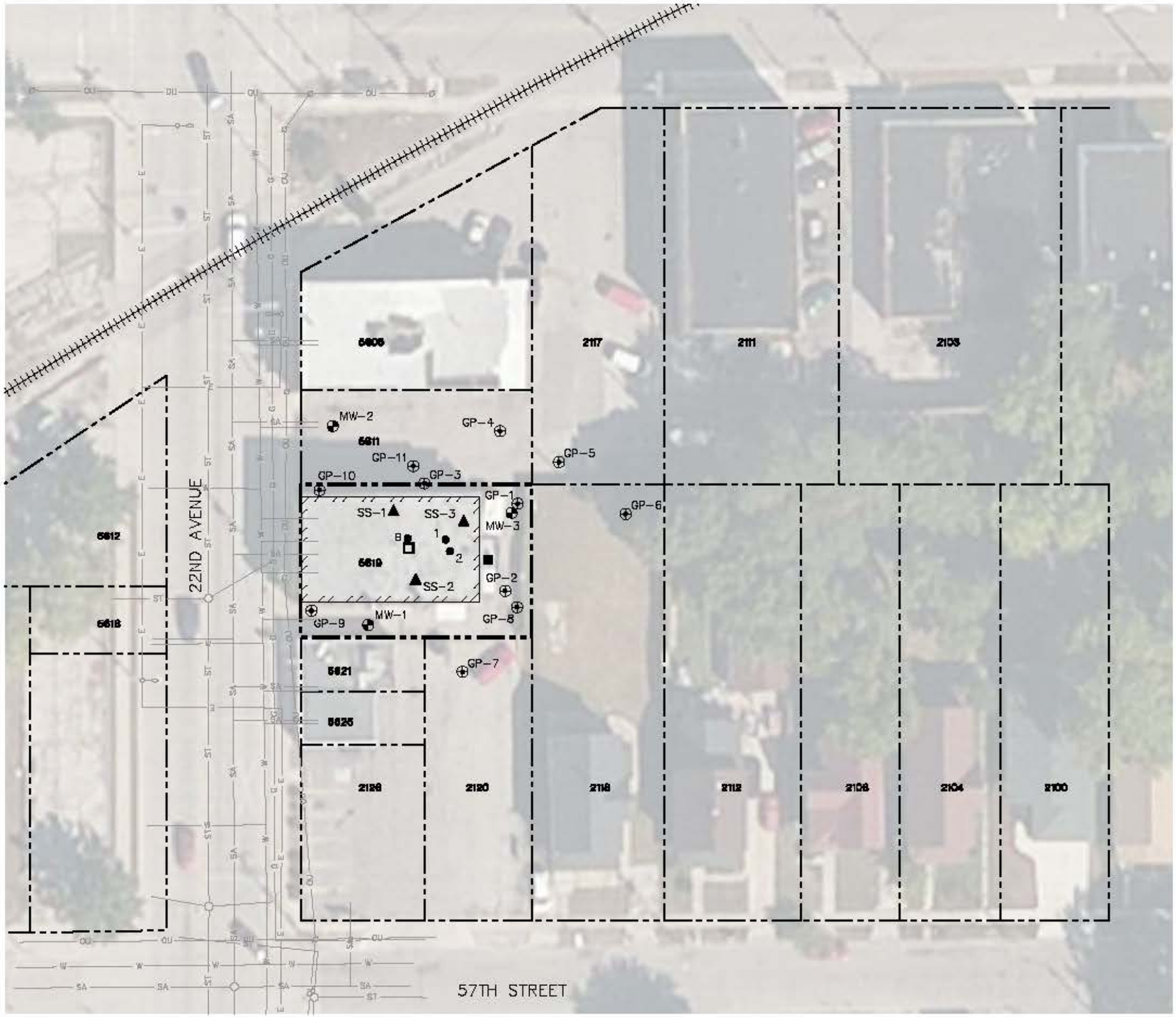

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LEGEND

- APPROXIMATE PROPERTY LINE (5619 22ND AVENUE)
- APPROXIMATE PROPERTY LINE
- 5619 PROPERTY ADDRESS NUMBER
- RAILROAD TRACKS
- E ELECTRIC (BURIED)
- OU ELECTRIC (OVERHEAD)
- G GAS MAIN
- SA SANITARY SEWER
- ST STORM SEWER
- W WATER MAIN
- UTILITY POLE
- STREET LIGHT
- SUMP
- GEOPROBE BORING
- MONITORING WELL
- SUB-SLAB VAPOR SAMPLE
- INDOOR AIR VAPOR SAMPLE [BASEMENT (B), FIRST FLOOR (1), SECOND FLOOR (2)]
- OUTDOOR AIR VAPOR SAMPLE

NOTES:

1. AERIAL PHOTOGRAPH IMPORTED FROM BING MAPS USING AUTOCAD 2016 GEOLOCATION MAP TOOL.
2. UTILITY LOCATIONS ARE APPROXIMATE, BASED ON 22ND AVENUE STORM SEWER AND LIGHTING DRAWING PROVIDED BY THE CITY OF KENOSHA (STATE PROJECT NO. 3994-03-70, SHEET 2.5).
3. SAMPLE LOCATIONS ARE APPROXIMATE.

40 0 40

SCALE: 1" = 40'

SITE FEATURES MAP

ARCTIC LAUNDRY AND CLEANERS
5619 22ND AVENUE
KENOSHA, WISCONSIN

SITE

CLIENT
STAFFORD ROSENBAUM, LLP
222 WEST WASHINGTON AVENUE
MADISON, WI 53701

FIGURE 2

ENGINEER
SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

DRAWN BY:	KP
CHECKED BY:	JD
APPROVED BY:	
PROJECT NO.	25216186.00
DRAWN:	10/20/16
REVISED:	01/25/17
REV:	03/13/17

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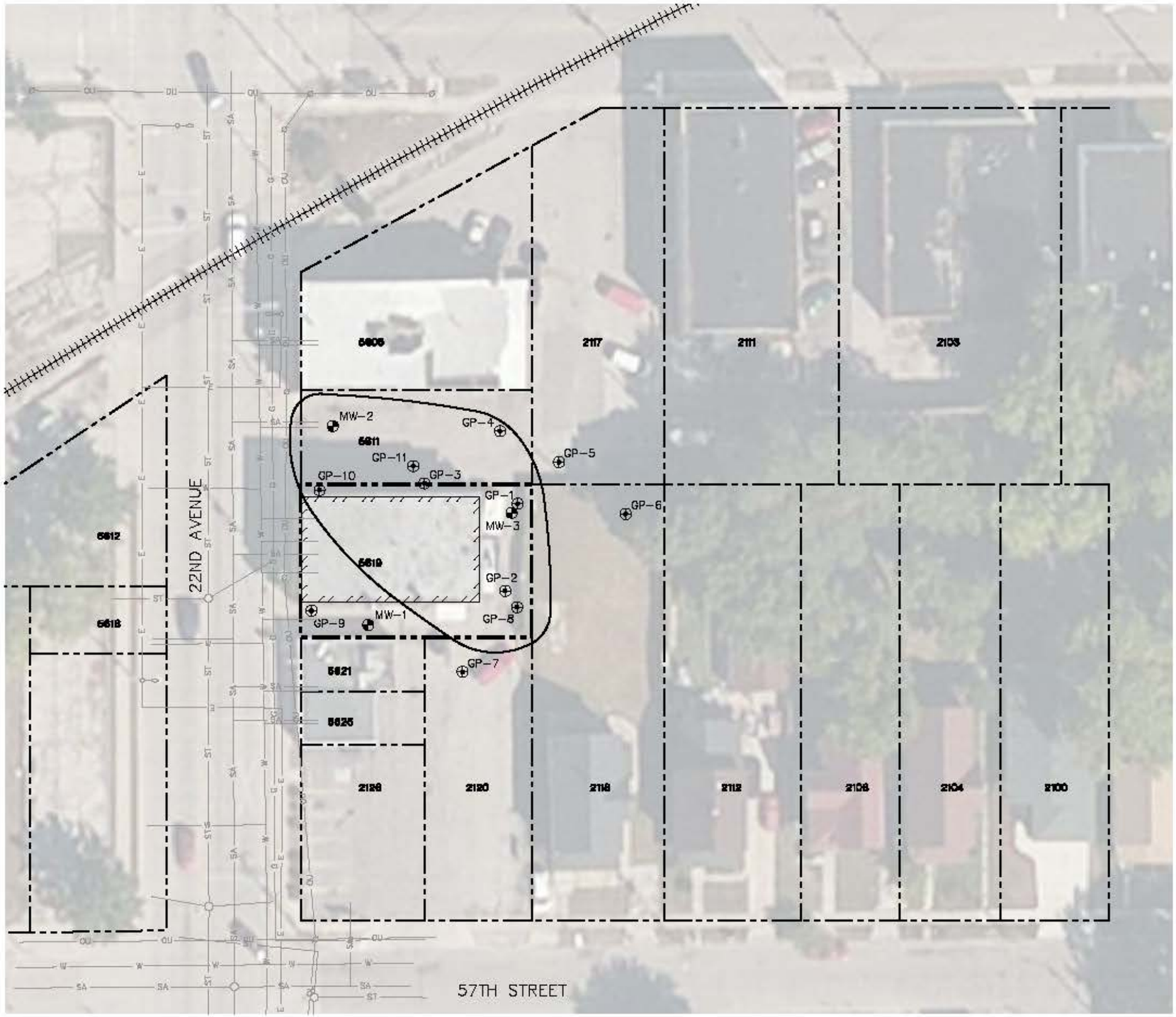

N

LEGEND

- APPROXIMATE PROPERTY LINE (5619 22ND AVENUE)
- APPROXIMATE PROPERTY LINE
- 5619 PROPERTY ADDRESS NUMBER
- RAILROAD TRACKS
- E ELECTRIC (BURIED)
- OU ELECTRIC (OVERHEAD)
- G GAS MAIN
- SA SANITARY SEWER
- ST STORM SEWER
- W WATER MAIN
- UTILITY POLE
- STREET LIGHT
- GEOPROBE BORING
- MONITORING WELL
- ESTIMATED EXTENT OF NR720 GROUNDWATER PATHWAY RCLS

NOTES:

1. AERIAL PHOTOGRAPH IMPORTED FROM BING MAPS USING AUTOCAD 2016 GEOLOCATION MAP TOOL.
2. UTILITY LOCATIONS ARE APPROXIMATE, BASED ON 22ND AVENUE STORM SEWER AND LIGHTING DRAWING PROVIDED BY THE CITY OF KENOSHA (STATE PROJECT NO. 3994-03-70, SHEET 2.5).
3. SAMPLE LOCATIONS ARE APPROXIMATE.

40 0 40

SCALE: 1" = 40'

SOIL CONTAMINATION

SITE: ARCTIC LAUNDRY AND CLEANERS
5619 22ND AVENUE
KENOSHA, WISCONSIN

CLIENT: STAFFORD ROSENBAUM, LLP
222 WEST WASHINGTON AVENUE
MADISON, WI 53701

FIGURE 3

ENGINEER: SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

DRAWN BY:	KP
CHECKED BY:	JD
APPROVED BY:	
PROJECT NO.	25216186.00
DRAWN:	03/07/17
REVISED:	03/07/17
REL	03/13/17

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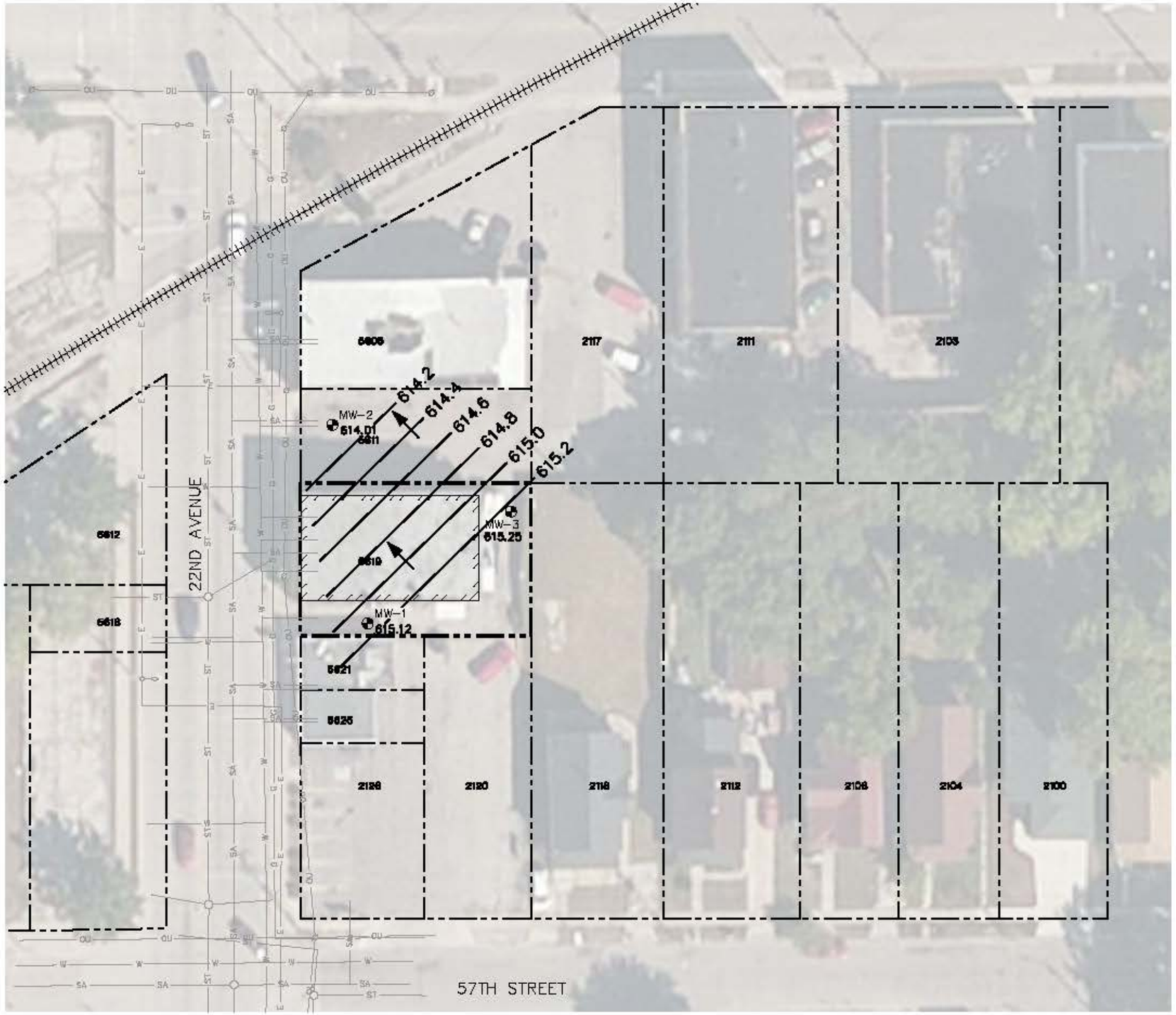

N

LEGEND

- APPROXIMATE PROPERTY LINE (5619 22ND AVENUE)
- APPROXIMATE PROPERTY LINE
- 5619 PROPERTY ADDRESS NUMBER
- RAILROAD TRACKS
- E ELECTRIC (BURIED)
- OU ELECTRIC (OVERHEAD)
- G GAS MAIN
- SA SANITARY SEWER
- ST STORM SEWER
- W WATER MAIN
- UTILITY POLE
- STREET LIGHT
- MONITORING WELL
- WATER TABLE CONTOUR
- 615.12 WATER TABLE ELEVATION MEASURED 02.21.17
- APPROXIMATE GROUNDWATER FLOW DIRECTION

NOTES:

1. AERIAL PHOTOGRAPH IMPORTED FROM BING MAPS USING AUTOCAD 2016 GEOLOCATION MAP TOOL.
2. UTILITY LOCATIONS ARE APPROXIMATE, BASED ON 22ND AVENUE STORM SEWER AND LIGHTING DRAWING PROVIDED BY THE CITY OF KENOSHA (STATE PROJECT NO. 3994-03-70, SHEET 2.5).
3. SAMPLE LOCATIONS ARE APPROXIMATE.

40 0 40

SCALE: 1" = 40'

WATER TABLE MAP
FEBRUARY 21, 2017

SITE
ARCTIC LAUNDRY AND CLEANERS
5619 22ND AVENUE
KENOSHA, WISCONSIN

CLIENT
STAFFORD ROSENBAUM, LLP
222 WEST WASHINGTON AVENUE
MADISON, WI 53701

FIGURE 4

ENGINEER
SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

DRAWN BY:	KP	
CHECKED BY:	JD	
APPROVED BY:		
PROJECT NO.	25219186.00	
DRAWN:	03/07/17	REL 03/13/17
REVISED:	03/07/17	

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ATTACHMENT A

Field Forms

State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Watershed/Wastewater
- ☑ Remediation/Redev.
- ☐ Waste Management
- ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 7-98
Revised by SCS 1-2016

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Arctic Laundry and Cleaners SCS # 25216186.00		GP-7

Boring Drilled By (Firm name and name of crew chief)	Drilling Started	Drilling Completed	Drilling Method
On-site Environmental Services, Inc. Tony Kapugi	2-6-17	2-6-17	geoprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam.

Boring Location State Plane	Lat. Long.	Local Grid Location (If applicable)
SW 1/4 of SW 1/4 of Section 31 , T. 2 N, R.23		N., E.

County	DNR County Code	Civil Town/City/or Village
Kenosha	30	Kenosha

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Max. PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
S1	X			base course, poorly sorted sand & gravel	SP			0.5		D		
	49"			silt, slight plasticity, dk brown	ML							
S2				lighter brown/tan				0.4		M		
			5									
S3	X			SANDY silt, fine sand, some gravel, light tan	ML			0.7		M		▽ ~7'
	38"											
S4				silt, gray, not plastic	ML			0.6		W		
			10									
S5				silt, tan, not plastic				0.3		W		
	57"											
S6				more gray				0.6		W		
			15									
				EOB @ 15'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Watershed/Wastewater
- ☑ Remediation/Redev.
- ☐ Waste Management
- ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-98
Revised by SCS 1-2016

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Arctic Laundry and Cleaners SCS # 25216186.00		GP-5

Boring Drilled By (Firm name and name of crew chief)	Drilling Started	Drilling Completed	Drilling Method
On-site Environmental Services, Inc. Tony Kapugi	2-6-17	2-6-17	Geoprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam.

Boring Location State Plane	Lat. Long.	Local Grid Location (If applicable)
SW 1/4 of SW 1/4 of Section 31 , T. 2 N, R.23		N., E.

County	DNR County Code	Civil Town/City/or Village
Kenosha	30	Kenosha

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Max. PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
S1	29"			poorly sorted sand & gravel (fill)	SP							
				tan, clay, black	CL			0.4		m		
				Silt, tan, not plastic	ML							
S2	X							0.4		m		
			5									
				Sandy Silt, fine sand, tan	ML					m/w		
S3	X			Silt, tan, not plastic				0.5				▽ ~7'
	41"									w		
S4				same, more gray/tan				0.4				
			10									
S5				same, more light gray				0.7		w		
	60"											
S6								0.5		w		
			15									
				EOB @ 15'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Watershed/Wastewater
- ☑ Remediation/Redev.
- ☐ Waste Management
- ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-98
Revised by SCS 1-2016

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Arctic Laundry and Cleaners SCS # 25216186.00		GP-9

Boring Drilled By (Firm name and name of crew chief)	Drilling Started	Drilling Completed	Drilling Method
On-site Environmental Services, Inc. Tony Kapugi	2-6-17	2-6-17	geoprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam.

Boring Location State Plane	Lat. Long.	Local Grid Location (If applicable)
SW 1/4 of SW 1/4 of Section 31 , T. 2 N, R.23		N. , E.

County	DNR County Code	Civil Town/City/or Village
Kenosha	30	Kenosha

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
S1				poorly graded sand + gravel (fill)	SP			0.4		D		
				lean clay, stiff, black	CL					M		
S2	B7"											
								0.5				
			5	tan/gray color								
S3				silt, tan, not plastic	ML			0.5		M		
	40'											
S4												▽ ~7.5'
			10					0.5		W		
S5				same, more light gray				0.4		W		
	60'											
S6												
				sandy silt, not plastic	ML			0.4		W		
			15									
				EOB @ 15'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Watershed/Wastewater
- ☑ Remediation/Redev.
- ☐ Waste Management
- ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 7-98
Revised by SCS 1-2016

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Arctic Laundry and Cleaners SCS # 25216186.00		GP-10

Boring Drilled By (Firm name and name of crew chief)	Drilling Started	Drilling Completed	Drilling Method
On-site Environmental Services, Inc. Tony Kapugi	2-14-17	2-14-17	geoprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam.
					2.0

Boring Location State Plane	Lat. Long.	Local Grid Location (If applicable)
SW 1/4 of SW 1/4 of Section 31 , T. 2 N, R.23		N., E.

County	DNR County Code	Civil Town/City/or Village
Kenosha	30	Kenosha

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
S1				poorly graded sand/gravel (fill)	SP			1.0		D		
				Silt, black, not plastic	ML							
S2	43"							1.2		M		
				same, more tan								
			5							M		
S3	60"							1.1				
S4				same, gray				0.9		M		
			10							W		▽ ~10'
S5	45"			same, gray				2.2				
S6										W		
								0.8				
			15									
				EOB @ 15'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

State of Wisconsin
Department of Natural Resources

Route To:
☐ Watershed/Wastewater
☑ Remediation/Redev.
☐ Waste Management ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 7-98
Revised by SCS 1-2016

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Arctic Laundry and Cleaners SCS # 25216186.00		GP-11

Boring Drilled By (Firm name and name of crew chief)	Drilling Started	Drilling Completed	Drilling Method
On-site Environmental Services, Inc. Tony Kapugi	2-6-17	2-6-17	geoprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam.
					2.0

Boring Location State Plane	Lat. / Long.	Local Grid Location (If applicable)
SW 1/4 of SW 1/4 of Section 31 , T. 2 N, R. 23		N. , E.

County	DNR County Code	Civil Town/City/or Village
Kenosha	30	Kenosha

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
S1	X 24"			poorly graded sand + gravel (fill) black/brown, some cinders + wood.	SP			1.5		D		
S2								1.4				
			5									
S3	X 24"			Silt, gray/tan, not plastic	ML			2.1		M		
S4								1.5				
			10							W		▽ ~ 8.5'
S5	60"			Same, more gray, not tan				1.2				
S6										W		
								1.1				
			15							W		
				EOB @ 15'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Watershed/Wastewater
- ☑ Remediation/Redev.
- ☐ Waste Management
- ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-98
Revised by SCS 1-2016

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Arctic Laundry and Cleaners SCS # 25216186.00		MW-1

Boring Drilled By (Firm name and name of crew chief)	Drilling Started	Drilling Completed	Drilling Method
On-site Environmental Services, Inc. Tony Kapugi	2-6-17	2-6-17	geoprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam.
			8.10	623.65	2.0

Boring Location	Lat.	Local Grid Location (If applicable)
State Plane SW 1/4 of SW 1/4 of Section 31 , T. 2 N, R.23	Long.	N., E.

County	DNR County Code	Civil Town/City/or Village
Kenosha	30	Kenosha

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
S1	28"			poorly sorted sand & gravel (fill)	SP			0.4		D		
				Silt, tan, not plastic	ML					M		
S2	X							0.5				
			5	Sandy Silt, tan, not plastic	ML							
S3	X			Silt, tan, not plastic	ML			0.4		M		
	34"											
S4								0.5		W		▽ ~7'
			10	more gray/tan								
S5				same, gray				0.5		W		
	57"											
S6								0.4		W		
			15	EOB @ 15'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

State of Wisconsin
Department of Natural Resources

Route To:
☐ Watershed/Wastewater
☑ Remediation/Redev.
☐ Waste Management
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-98
Revised by SCS 1-2016

Page 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Arctic Laundry and Cleaners SCS # 25216186.00		MW-2

Boring Drilled By (Firm name and name of crew chief)	Drilling Started	Drilling Completed	Drilling Method
On-site Environmental Services, Inc. Tony Kapugi	2-6-17	2-6-17	geoprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Static Water Level	Surface Elevation	Borehole Diam.
			9.50	623.68	2.0

Boring Location	Lat.	Local Grid Location (If applicable)
State Plane SW 1/4 of SW 1/4 of Section 31 , T. 2 N, R.23	Long.	N., E.

County	DNR County Code	Civil Town/City/or Village
Kenosha	30	Kenosha

Sample Number	Sample Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: P200	RQD/ Comments
S1				poorly graded sand + gravel (fill) tan/brown	SP			1.2		D		
	34"			Silt, tan, not plastic	ML					m		
S2	X							1.5				
			5									
S3	X			sandy silt, tan, fine sand	ML							
	48"			Silt, more ± gray/tan, not plastic	ML			1.5		m		
S4								1.4		W		▽ ~8.5'
			10									
S5				same as above but gray				2.4		W		
	47"											
S6								1.9		W		
			15									
				EOB @ 15'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

This form is authorized by Chapters 281,283,289,291,292,295,and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture between $10 and $25,000, or imprisonment for up to one year, depending on program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information.

State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Watershed/Wastewater
- ☑ Remediation/Redev.
- ☐ Waste Management
- ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-98
Revised by SCS 1-2016

Facility/Project Name: Arctic Laundry and Cleaners SCS # 25216186.00	License/Permit/Monitoring Number	Boring Number: MW-3	
Boring Drilled By (Firm name and name of crew chief): On-site Environmental Services, Inc. Tony Kapugi	Drilling Started: 2-16-17	Drilling Completed: 2-16-17	Drilling Method: direct push
DNR Facility Well No. / WI Unique Well No. / Common Well Name	Static Water Level: 7.54	Surface Elevation: 623.29	Borehole Diam.
Boring Location: State Plane SW 1/4 of SW 1/4 of Section 31, T. 2 N, R. 23	Lat. / Long.	Local Grid Location (If applicable): N., E.	
County: Kenosha	DNR County Code: 30	Civil Town/City/or Village: Kenosha	

Sample Number	Length Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Max. PID/FID	Soil Properties: Standard Penetration	Moisture Content	P200	RQD/ Comments
S1	40"		0	poorly graded sand + gravel (fill)	SP			1.6		D		
				Silt, tan, non plastic, few gravel, some clay	ML					M		
S2				Silt, not plastic, tan				1.3				
			5							M		
S3	48"							2.9				
S4				same, gray				1.7		W		▽ ≈ 8.5'
S5	40"		10	same, silt				1.8		W		
S6												
			15					0.9		W		
				EOB @ 15'								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: SCS ENGINEERS 2830 Dairy Drive Madison, WI 53718

State of Wis., Dept. of Natural Resources SCS No. 25216186.00
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha	_ _ _ _ _ _	GP-7

Latitude / Longitude (see instructions) _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		31	2 N	23 ☒ E ☐ W

Well Street Address: 5619 22nd Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53140

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Arctic Laundry and Cleaners
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Bay Baietto
Present Well Owner: Bay Baietto
Mailing Address of Present Owner: 1850 19th Avenue

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 2-16-17
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0"	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	~7.0

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	15.0	0.48 bags	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
SCS Engineers		2-16-17

Street or Route	Telephone Number
2830 Dairy Drive	(608) 224-2830

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53718		2-7-17

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources SCS No. 25216186.00
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha	_ _ _ _ _ _	GP-8

Latitude / Longitude (see instructions) _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		31	2 N	23 ☒ E ☐ W

Well Street Address: 5619 22nd Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53140

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Arctic Laundry and Cleaners
Facility ID (FID or PWS):
License/Permit/Monitoring #:

Original Well Owner: Boy Baietto
Present Well Owner: Boy Baietto
Mailing Address of Present Owner: 1850 19th Avenue

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 2-6-17

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	~7.0

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite	Surface	15	0.48 bags	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
SCS Engineers		2-6-17

Street or Route	Telephone Number
2830 Dairy Drive	(608) 224-2830

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53718		2-7-17

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources SCS No. 25216186.00
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha	_ _ _ _ _ _ _	GP-9

Latitude / Longitude (see instructions) ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		31	2 N	23 ☒ E ☐ W

Well Street Address: 5619 22nd Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53140

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	_ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Arctic Laundry and Cleaners
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Roy Baietto
Present Well Owner: Roy Baietto
Mailing Address of Present Owner: 1850 19th Avenue

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy):
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	~7.5'

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	15.0	0.48 bags	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
SCS Engineers		2-6-17

Street or Route	Telephone Number
2830 Dairy Drive	(608) 224-2830

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53718		2-7-17

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources SCS No. 25216186.00
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-10

Latitude / Longitude (see instructions) ____ N ____ W — Format Code: ☐ DD ☐ DDM — Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		31	2 N	23 ☒ E ☐ W

Well Street Address: 5619 22nd Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53140

Subdivision Name	Lot #

Reason for Removal from Service: Temporary Borehole
WI Unique Well # of Replacement Well: ____

2. Facility / Owner Information

Facility Name: Arctic Laundry and Cleaners
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Boy Baietto
Present Well Owner: Boy Baietto
Mailing Address of Present Owner: 1850 19th Avenue

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 2-6-17

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	~10.0

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): ____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	15.0	0.48 bags	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
SCS Engineers		2-6-17

Street or Route	Telephone Number
2830 Dairy Drive	(608) 224-2830

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53718		2-7-17

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources dnr.wi.gov SCS No. 25216186.00

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-11

Latitude / Longitude (see instructions) ____ N ____ W — Format Code: ☐ DD ☐ DDM — Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		31	2 N	23 ☒ E ☐ W

Well Street Address: 5619 22nd Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53140

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	

2. Facility / Owner Information

Facility Name: Arctic Laundry and Cleaners

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: Boy Baietto

Present Well Owner: Boy Baietto

Mailing Address of Present Owner: 1850 19th Avenue

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 2-6-17

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	~ 8.5

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	15.0	0.48 bags	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
SCS Engineers		2-6-17

Street or Route	Telephone Number
2830 Dairy Drive	(608) 224-2830

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53718		2-7-17

DNR Use Only

Date Received	Noted By

Comments:

SCS # 25216186.00

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Arctic Laundry and Cleaners	Local Grid Location of Well ☐ N. ☐ S. ____ ft. ☐ E. ☐ W. ____ ft.	Well Name: MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: WW581 / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 02/06/2017 (m m d d y y y y)
Type of Well: Well Code ____ / ____	Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 31, T. 2 N, R. 23 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm: Tony Kapugi, On-site Environmental Services, Inc.
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☒	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation 623.65 ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☒ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe —

17. Source of water (attach analysis, if required):
—

E. Bentonite seal, top 622.82 ft. MSL or ~~3.5~~ 3.83 ft.
F. Fine sand, top 620.15 ft. MSL or 3.5 ft.
G. Filter pack, top 619.65 ft. MSL or 4.0 ft.
H. Screen joint, top 619.15 ft. MSL or 4.5 ft.
I. Well bottom 609.15 ft. MSL or 14.5 ft.
J. Filter pack, bottom 609.15 ft. MSL or 14.5 ft.
K. Borehole, bottom 608.65 ft. MSL or 15.0 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing ~~2.03~~ 2.38 in.
N. I.D. well casing ~~2.06~~ 2.01 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 / Other ☐ —
d. Additional protection? ☐ Yes ☐ No
If yes, describe: —
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ —
4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ —
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1.25 Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 32
c. ____ Other ☐ —
7. Fine sand material: Manufacturer, product name & mesh size
a. 30/100 BW Sidley ☐
b. Volume added 0.25 ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. BW Sidley #5 ☐
b. Volume added 2.75 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ —
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ —
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ —

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

SCS # 25216186.00

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Managemen ☐
Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Arctic Laundry and Cleaners	Local Grid Location of Well ☐ ft. ☐N. ☐S. ☐ ft. ☐E. ☐W.	Well Name: MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VW582 / DNR Well ID No.:
Facility ID	St. Plane ft. N, ft. E. S/C/N	Date Well Installed: 02/08/2017 (m m d d y y y y)
Type of Well: Well Code /	Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 31, T. 2 N, R. 23 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Tony Kapugi / On-site Environmental Services, Inc.
Distance from Waste/Source ft. / Enf. Stds. Apply ☒	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation 622.28 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☒ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe —

17. Source of water (attach analysis, if required):
—

E. Bentonite seal, top 622.85 ft. MSL or ~~3.5~~ ft. 0.83

F. Fine sand, top 620.18 ft. MSL or 3.5 ft.

G. Filter pack, top 619.68 ft. MSL or 4.0 ft.

H. Screen joint, top 619.18 ft. MSL or 4.5 ft.

I. Well bottom 609.18 ft. MSL or 14.5 ft.

J. Filter pack, bottom 609.18 ft. MSL or 14.5 ft.

K. Borehole, bottom 608.68 ft. MSL or 15.0 ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing ~~2.05 in.~~ 2.38

N. I.D. well casing ~~2.38~~ in. 2.01

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8.6 in.
b. Length: ~~12~~ 1 ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe:

3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☒ 30
Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1.25 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. ~~30/40~~ 30/100 BW Sidley ☐
b. Volume added 0.25 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. BW Sidley #5 ☐
b. Volume added 2.75 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

SCS # 25216186.00

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Arctic Laundry and Cleaners	Local Grid Location of Well ☐ ft. ☐ N. ☐ S. ☐ ft. ☐ E. ☐ W.	Well Name: MW-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VW583 / DNR Well ID No.
Facility ID	St. Plane ft. N, ft. E. S/C/N	Date Well Installed: 02/06/2017 (m m d d y y y y)
Type of Well: Well Code /	Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 31, T. 2 N, R. 23 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm: Tony Kapugi / On-site Environmental Services, Inc.
Distance from Waste/Source ft. / Enf. Stds. Apply ☒	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation 623.29 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☒ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe —

17. Source of water (attach analysis, if required):
—

E. Bentonite seal, top 622.46 ft. MSL or 3.5 ft. 0.83

F. Fine sand, top 619.79 ft. MSL or 3.5 ft.

G. Filter pack, top 619.29 ft. MSL or 4.0 ft.

H. Screen joint, top 618.79 ft. MSL or 4.5 ft.

I. Well bottom 608.79 ft. MSL or 14.5 ft.

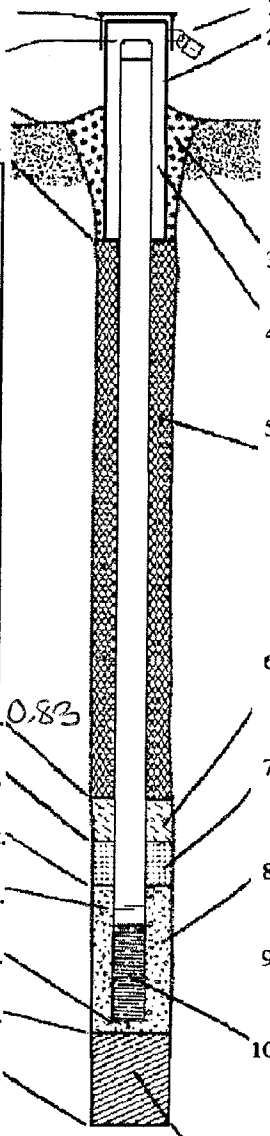
J. Filter pack, bottom 608.79 ft. MSL or 14.5 ft.

K. Borehole, bottom 608.29 ft. MSL or 15.0 ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing ~~2.05~~ in. 2.38

N. I.D. well casing ~~2.38~~ in. 2.01



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: —

3. Surface seal: Bentonite ☐ 30 Concrete ☒ 01 Other ☐

4. Material between well casing and protective pipe: Bentonite ☒ 30 Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1.25 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. — Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. 30/100 BW Sidley ☐
b. Volume added 0.25 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. BW Sidley #5 ☐
b. Volume added 2.75 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐
b. Manufacturer Mendlex
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ☒ 14 Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

SCS # 25216186.00

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Arctic Laundry and Cleaners	Kenosha	MW-1

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	30	VW581	___

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 118 min.

4. Depth of well (from top of well casisng) 14.5 ft.

5. Inside diameter of well 2.03 in.

6. Volume of water in filter pack and well casing 5.9 gal.

7. Volume of water removed from well 21.5 gal.

8. Volume of water added (if any) ___.__ gal.

9. Source of water added —

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 8.10 ft.	9.55 ft.
Date	b. 07/07/2017 (m m d d y y y y)	02/07/2017 (m m d d y y y y)
Time	c. 9:07 ☒ a.m. ☐ p.m.	11:05 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	1.5 inches	.6 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) very silty, dark gray	Clear ☐ 20 Turbid ☒ 25 (Describe) silty, dark gray/cloudy

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Jaclyn Last Name: DeBruyne
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

17. Additional comments on development:
bailed ~49, well went dry
bailed ~2g, well went dry, does not recharge quick

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Boy Last Name: Baietto
Facility/Firm: _____
Street: 1850 19th Avenue
City/State/Zip: Kenosha, WI 53140

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Jaclyn DeBruyne
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.

SCS # 25216186.00

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Arctic Laundry and Cleaners	Kenosha	MW-2
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	30	WW582	___

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☒ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well ___18 min.

4. Depth of well (from top of well casisng) __14.5 ft.

5. Inside diameter of well __2.03 in.

6. Volume of water in filter pack and well casing ___4.6 gal.

7. Volume of water removed from well ___6.0 gal.

8. Volume of water added (if any) ___-.- gal.

9. Source of water added —

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☒ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. __9.50 ft.	__12.20 ft.
Date	b. 02/07/2017 (m m d d y y y y)	02/07/2017 (m m d d y y y y)
Time	c. 8:23 ☒ a.m. ☐ p.m.	8:51 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	__0.5 inches	___.5 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Very silty	Clear ☐ 20 Turbid ☒ 25 (Describe) Very silty

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Jaclyn Last Name: DeBruyne
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

17. Additional comments on development:
bailed ~4g, well went dry — let recharge a bit
purged ~3/4g, well went dry, not recharging quick
purged ~1g, well went dry

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Boy Last Name: Baietto
Facility/Firm: _____
Street: 1850 19th Avenue
City/State/Zip: Kenosha, WI 53140

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Jaclyn DeBruyne
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.

SCS # 25216186.00

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Arctic Laundry and Cleaners	Kenosha	MW-3

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	30	VW553	___

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	___

3. Time spent developing well 80 ~~20~~ min.

4. Depth of well (from top of well casisng) 14.5 ft.

5. Inside diameter of well 2.03 in.

6. Volume of water in filter pack and well casing 6.4 gal.

7. Volume of water removed from well 6.5 gal.

8. Volume of water added (if any) ---.- gal.

9. Source of water added —

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 7.54 ft.	10.40 ft.
Date	b. 02/07/2017 (mm dd yyyy)	02/07/2017 (mm dd yyyy)
Time	c. 9:45 ☒ a.m. ☐ p.m.	11:05 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	~~0.5~~ 0.65 inches	0.65 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☐ 20 Turbid ☒ 25
(Describe)	Turbid, brown color, not as silty	Turbid, brown color

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Jaclyn Last Name: DeBruyne
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

17. Additional comments on development:
bailed 3.5 g, well went dry
bailed 1 g, well went dry
Very slow recharge

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Boy Last Name: Baietto
Facility/Firm: _____
Street: 1850 19th Avenue
City/State/Zip: Kenosha, WI 53140

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Jaclyn DeBruyne
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.

ATTACHMENT B

Disposal Documentation

Madison Metropolitan Sewerage District

Firm:	SCS Engineers	Ticket No:	210869
Driver:	BT2 BT2	Date/Time:	2/8/2017 11:09:57AM
Truck:	(c) JG 7813	Total Cost:	$0.12
Comments:	monitoring well development water		

Type	Volume
Grease Trap	0
Holding Tank	0
LUST	30
Portable Toilet	0
Septic Tank	0
SettlingCatchBasin	0

ATTACHMENT C

Soil and Groundwater Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-123596-1
Client Project/Site: Arctic Laundry & Cleaners - 25216186

For:
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

Attn: Mr. Robert Langdon

Sandie Fredrick

Authorized for release by:
2/16/2017 1:57:53 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Case Narrative

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Job ID: 500-123596-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-123596-1

Comments
No additional comments.

Receipt
The samples were received on 2/8/2017 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8º C.

Receipt Exceptions
Received all 3 vials for sample 18 with larger than pea size bubbles. Received 1 vial broken for sample 21.

GC/MS VOA
Method(s) 5035: methanol vial has < 8 grams of sample in 10 ml of methanol. GP-7 (0-2') (500-123596-1), GP-7 (5-7.5') (500-123596-2), GP-8 (2.5-5') (500-123596-3), GP-8 (5-7.5') (500-123596-4), GP-9 (2.5-5') (500-123596-5), GP-9 (5-7.5') (500-123596-6), GP-10 (2.5-5') (500-123596-7), GP-10 (5-7.5') (500-123596-8), GP-11 (0-2.5') (500-123596-9), GP-11 (5-7.5') (500-123596-10), MW-1 (2.5-5') (500-123596-11), MW-1 (5-7.5') (500-123596-12), MW-2 (2.5-5') (500-123596-13), MW-2 (5-7.5') (500-123596-14), MW-3 (0-2.5') (500-123596-15) and MW-3 (5-7.5') (500-123596-16)

Method(s) 8260B: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: GP-7 (500-123596-18), GP-8 (500-123596-19), GP-9 (500-123596-20), GP-10 (500-123596-21) and GP-11 (500-123596-22).

Method(s) 8260B: The extraction LCS associated with preparation batch 371336 had analyte recovery for Dichlorodifluoromethane outside control limits. The instrument LCS associated with analytical batch 371372 had all analytes within control limits; therefore re-analysis was not performed. The data have been reported and qualified. GP-7 (0-2') (500-123596-1), GP-7 (5-7.5') (500-123596-2), GP-8 (2.5-5') (500-123596-3), GP-8 (5-7.5') (500-123596-4), GP-9 (2.5-5') (500-123596-5), GP-9 (5-7.5') (500-123596-6), GP-10 (2.5-5') (500-123596-7), GP-10 (5-7.5') (500-123596-8), GP-11 (0-2.5') (500-123596-9), GP-11 (5-7.5') (500-123596-10), MW-1 (2.5-5') (500-123596-11), MW-1 (5-7.5') (500-123596-12), MW-2 (2.5-5') (500-123596-13), MW-2 (5-7.5') (500-123596-14) and MW-3 (0-2.5') (500-123596-15)

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.

Detection Summary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-7 (0-2') — Lab Sample ID: 500-123596-1

No Detections.

Client Sample ID: GP-7 (5-7.5') — Lab Sample ID: 500-123596-2

No Detections.

Client Sample ID: GP-8 (2.5-5') — Lab Sample ID: 500-123596-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	170		100	39	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: GP-8 (5-7.5') — Lab Sample ID: 500-123596-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1100		120	43	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: GP-9 (2.5-5') — Lab Sample ID: 500-123596-5

No Detections.

Client Sample ID: GP-9 (5-7.5') — Lab Sample ID: 500-123596-6

No Detections.

Client Sample ID: GP-10 (2.5-5') — Lab Sample ID: 500-123596-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	850		89	33	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: GP-10 (5-7.5') — Lab Sample ID: 500-123596-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3200		99	37	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: GP-11 (0-2.5') — Lab Sample ID: 500-123596-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	15000		91	34	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: GP-11 (5-7.5') — Lab Sample ID: 500-123596-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	17000		84	31	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: MW-1 (2.5-5') — Lab Sample ID: 500-123596-11

No Detections.

Client Sample ID: MW-1 (5-7.5') — Lab Sample ID: 500-123596-12

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-2 (2.5-5') — Lab Sample ID: 500-123596-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	510		92	34	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: MW-2 (5-7.5') — Lab Sample ID: 500-123596-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	130		100	37	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: MW-3 (0-2.5') — Lab Sample ID: 500-123596-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3200		360	130	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: MW-3 (5-7.5') — Lab Sample ID: 500-123596-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3000		88	32	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-123596-17

No Detections.

Client Sample ID: GP-7 — Lab Sample ID: 500-123596-18

No Detections.

Client Sample ID: GP-8 — Lab Sample ID: 500-123596-19

No Detections.

Client Sample ID: GP-9 — Lab Sample ID: 500-123596-20

No Detections.

Client Sample ID: GP-10 — Lab Sample ID: 500-123596-21

No Detections.

Client Sample ID: GP-11 — Lab Sample ID: 500-123596-22

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-123596-1	GP-7 (0-2')	Solid	02/06/17 08:50	02/08/17 10:30
500-123596-2	GP-7 (5-7.5')	Solid	02/06/17 08:55	02/08/17 10:30
500-123596-3	GP-8 (2.5-5')	Solid	02/06/17 09:40	02/08/17 10:30
500-123596-4	GP-8 (5-7.5')	Solid	02/06/17 09:45	02/08/17 10:30
500-123596-5	GP-9 (2.5-5')	Solid	02/06/17 10:35	02/08/17 10:30
500-123596-6	GP-9 (5-7.5')	Solid	02/06/17 10:40	02/08/17 10:30
500-123596-7	GP-10 (2.5-5')	Solid	02/06/17 11:05	02/08/17 10:30
500-123596-8	GP-10 (5-7.5')	Solid	02/06/17 11:10	02/08/17 10:30
500-123596-9	GP-11 (0-2.5')	Solid	02/06/17 11:25	02/08/17 10:30
500-123596-10	GP-11 (5-7.5')	Solid	02/06/17 11:30	02/08/17 10:30
500-123596-11	MW-1 (2.5-5')	Solid	02/06/17 10:00	02/08/17 10:30
500-123596-12	MW-1 (5-7.5')	Solid	02/06/17 10:05	02/08/17 10:30
500-123596-13	MW-2 (2.5-5')	Solid	02/06/17 11:55	02/08/17 10:30
500-123596-14	MW-2 (5-7.5')	Solid	02/06/17 12:00	02/08/17 10:30
500-123596-15	MW-3 (0-2.5')	Solid	02/06/17 13:50	02/08/17 10:30
500-123596-16	MW-3 (5-7.5')	Solid	02/06/17 13:55	02/08/17 10:30
500-123596-17	Trip Blank	Water	02/06/17 00:00	02/08/17 10:30
500-123596-18	GP-7	Water	02/06/17 10:10	02/08/17 10:30
500-123596-19	GP-8	Water	02/06/17 10:15	02/08/17 10:30
500-123596-20	GP-9	Water	02/06/17 12:55	02/08/17 10:30
500-123596-21	GP-10	Water	02/06/17 12:40	02/08/17 10:30
500-123596-22	GP-11	Water	02/06/17 12:45	02/08/17 10:30

Client Sample ID: GP-7 (0-2')
Date Collected: 02/06/17 08:50
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-1
Matrix: Solid
Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		30	18	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Bromobenzene	<43		120	43	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Bromochloromethane	<52		120	52	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Bromodichloromethane	<45		120	45	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Bromoform	<59		120	59	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Bromomethane	<96		240	96	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Carbon tetrachloride	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Chlorobenzene	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Chloroethane	<61		120	61	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Chloroform	<45		240	45	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Chloromethane	<39		120	39	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
2-Chlorotoluene	<38		120	38	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
4-Chlorotoluene	<42		120	42	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
cis-1,2-Dichloroethene	<49		120	49	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
cis-1,3-Dichloropropene	<50		120	50	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Dibromochloromethane	<59		120	59	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2-Dibromo-3-Chloropropane	<240		610	240	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2-Dibromoethane	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Dibromomethane	<33		120	33	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2-Dichlorobenzene	<40		120	40	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,3-Dichlorobenzene	<48		120	48	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,4-Dichlorobenzene	<44		120	44	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Dichlorodifluoromethane	<82	*	240	82	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1-Dichloroethane	<50		120	50	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2-Dichloroethane	<48		120	48	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1-Dichloroethene	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2-Dichloropropane	<52		120	52	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,3-Dichloropropane	<44		120	44	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
2,2-Dichloropropane	<54		120	54	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1-Dichloropropene	<36		120	36	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Ethylbenzene	<22		30	22	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Hexachlorobutadiene	<54		120	54	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Isopropylbenzene	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Isopropyl ether	<33		120	33	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Methylene Chloride	<200		610	200	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Methyl tert-butyl ether	<48		120	48	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Naphthalene	<40		120	40	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
n-Butylbenzene	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
N-Propylbenzene	<50		120	50	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
p-Isopropyltoluene	<44		120	44	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
sec-Butylbenzene	<48		120	48	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Styrene	<47		120	47	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
tert-Butylbenzene	<48		120	48	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1,1,2-Tetrachloroethane	<56		120	56	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1,2,2-Tetrachloroethane	<48		120	48	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Tetrachloroethene	<45		120	45	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Toluene	<18		30	18	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
trans-1,2-Dichloroethene	<42		120	42	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
trans-1,3-Dichloropropene	<44		120	44	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50

Client Sample ID: GP-7 (0-2')

Date Collected: 02/06/17 08:50
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-1
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<56		120	56	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2,4-Trichlorobenzene	<41		120	41	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1,1-Trichloroethane	<46		120	46	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,1,2-Trichloroethane	<43		120	43	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Trichloroethene	<20		61	20	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Trichlorofluoromethane	<52		120	52	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2,3-Trichloropropane	<50		120	50	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,2,4-Trimethylbenzene	<43		120	43	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
1,3,5-Trimethylbenzene	<46		120	46	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Vinyl chloride	<32		61	32	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50
Xylenes, Total	<27		61	27	ug/Kg	☼	02/06/17 08:50	02/09/17 12:40	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*	*02/06/17 08:50*	*02/09/17 12:40*	*50*
Dibromofluoromethane	*105*		*70 - 120*	*02/06/17 08:50*	*02/09/17 12:40*	*50*
1,2-Dichloroethane-d4 (Surr)	*104*		*71 - 127*	*02/06/17 08:50*	*02/09/17 12:40*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*02/06/17 08:50*	*02/09/17 12:40*	*50*

Client Sample ID: GP-7 (5-7.5')

Date Collected: 02/06/17 08:55
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-2
Matrix: Solid
Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		23	13	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Bromobenzene	<33		92	33	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Bromochloromethane	<39		92	39	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Bromodichloromethane	<34		92	34	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Bromoform	<44		92	44	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Bromomethane	<73		180	73	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Carbon tetrachloride	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Chlorobenzene	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Chloroethane	<46		92	46	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Chloroform	<34		180	34	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Chloromethane	<29		92	29	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
2-Chlorotoluene	<29		92	29	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
4-Chlorotoluene	<32		92	32	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
cis-1,2-Dichloroethene	<37		92	37	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
cis-1,3-Dichloropropene	<38		92	38	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Dibromochloromethane	<45		92	45	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2-Dibromo-3-Chloropropane	<180		460	180	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2-Dibromoethane	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Dibromomethane	<25		92	25	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2-Dichlorobenzene	<31		92	31	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,3-Dichlorobenzene	<37		92	37	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,4-Dichlorobenzene	<33		92	33	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Dichlorodifluoromethane	<62	*	180	62	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1-Dichloroethane	<38		92	38	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2-Dichloroethane	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1-Dichloroethene	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50

Client Sample ID: GP-7 (5-7.5')

Date Collected: 02/06/17 08:55
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-2
Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<39		92	39	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,3-Dichloropropane	<33		92	33	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
2,2-Dichloropropane	<41		92	41	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1-Dichloropropene	<27		92	27	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Ethylbenzene	<17		23	17	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Hexachlorobutadiene	<41		92	41	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Isopropylbenzene	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Isopropyl ether	<25		92	25	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Methylene Chloride	<150		460	150	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Methyl tert-butyl ether	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Naphthalene	<31		92	31	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
n-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
N-Propylbenzene	<38		92	38	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
p-Isopropyltoluene	<33		92	33	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
sec-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Styrene	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
tert-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1,1,2-Tetrachloroethane	<42		92	42	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1,2,2-Tetrachloroethane	<36		92	36	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Tetrachloroethene	<34		92	34	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Toluene	<13		23	13	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
trans-1,2-Dichloroethene	<32		92	32	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
trans-1,3-Dichloropropene	<33		92	33	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2,3-Trichlorobenzene	<42		92	42	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2,4-Trichlorobenzene	<31		92	31	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1,1-Trichloroethane	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,1,2-Trichloroethane	<32		92	32	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Trichloroethene	<15		46	15	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Trichlorofluoromethane	<39		92	39	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2,3-Trichloropropane	<38		92	38	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,2,4-Trimethylbenzene	<33		92	33	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
1,3,5-Trimethylbenzene	<35		92	35	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Vinyl chloride	<24		46	24	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50
Xylenes, Total	<20		46	20	ug/Kg	☼	02/06/17 08:55	02/09/17 13:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*	*02/06/17 08:55*	*02/09/17 13:08*	*50*
Dibromofluoromethane	*102*		*70 - 120*	*02/06/17 08:55*	*02/09/17 13:08*	*50*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 127*	*02/06/17 08:55*	*02/09/17 13:08*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*02/06/17 08:55*	*02/09/17 13:08*	*50*

Client Sample ID: GP-8 (2.5-5')

Date Collected: 02/06/17 09:40
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-3
Matrix: Solid
Percent Solids: 86.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<15		26	15	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Bromobenzene	<37		100	37	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Bromochloromethane	<45		100	45	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50

Client Sample ID: GP-8 (2.5-5')
Date Collected: 02/06/17 09:40
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-3
Matrix: Solid
Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<39		100	39	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Bromoform	<51		100	51	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Bromomethane	<83		210	83	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Carbon tetrachloride	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Chlorobenzene	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Chloroethane	<53		100	53	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Chloroform	<39		210	39	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Chloromethane	<34		100	34	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
2-Chlorotoluene	<33		100	33	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
4-Chlorotoluene	<37		100	37	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
cis-1,2-Dichloroethene	<43		100	43	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
cis-1,3-Dichloropropene	<44		100	44	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Dibromochloromethane	<51		100	51	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2-Dibromo-3-Chloropropane	<210		520	210	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2-Dibromoethane	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Dibromomethane	<28		100	28	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2-Dichlorobenzene	<35		100	35	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,3-Dichlorobenzene	<42		100	42	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,4-Dichlorobenzene	<38		100	38	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Dichlorodifluoromethane	<71	*	210	71	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,1-Dichloroethane	<43		100	43	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2-Dichloroethane	<41		100	41	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,1-Dichloroethene	<41		100	41	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2-Dichloropropane	<45		100	45	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,3-Dichloropropane	<38		100	38	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
2,2-Dichloropropane	<47		100	47	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,1-Dichloropropene	<31		100	31	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Ethylbenzene	<19		26	19	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Hexachlorobutadiene	<47		100	47	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Isopropylbenzene	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Isopropyl ether	<29		100	29	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Methylene Chloride	<170		520	170	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Methyl tert-butyl ether	<41		100	41	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Naphthalene	<35		100	35	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
n-Butylbenzene	<41		100	41	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
N-Propylbenzene	<43		100	43	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
p-Isopropyltoluene	<38		100	38	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
sec-Butylbenzene	<42		100	42	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Styrene	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
tert-Butylbenzene	<42		100	42	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,1,1,2-Tetrachloroethane	<48		100	48	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,1,2,2-Tetrachloroethane	<42		100	42	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Tetrachloroethene	**170**		100	39	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Toluene	<15		26	15	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
trans-1,2-Dichloroethene	<37		100	37	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
trans-1,3-Dichloropropene	<38		100	38	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2,3-Trichlorobenzene	<48		100	48	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2,4-Trichlorobenzene	<36		100	36	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,1,1-Trichloroethane	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50

Client Sample ID: GP-8 (2.5-5')

Date Collected: 02/06/17 09:40
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-3

Matrix: Solid
Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<37		100	37	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Trichloroethene	<17		52	17	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Trichlorofluoromethane	<45		100	45	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2,3-Trichloropropane	<43		100	43	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,2,4-Trimethylbenzene	<38		100	38	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
1,3,5-Trimethylbenzene	<40		100	40	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Vinyl chloride	<27		52	27	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50
Xylenes, Total	<23		52	23	ug/Kg	☼	02/06/17 09:40	02/09/17 13:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*71 - 120*	*02/06/17 09:40*	*02/09/17 13:36*	*50*
Dibromofluoromethane	*104*		*70 - 120*	*02/06/17 09:40*	*02/09/17 13:36*	*50*
1,2-Dichloroethane-d4 (Surr)	*103*		*71 - 127*	*02/06/17 09:40*	*02/09/17 13:36*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*02/06/17 09:40*	*02/09/17 13:36*	*50*

Client Sample ID: GP-8 (5-7.5')

Date Collected: 02/06/17 09:45
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-4

Matrix: Solid
Percent Solids: 84.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<17		29	17	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Bromobenzene	<42		120	42	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Bromochloromethane	<50		120	50	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Bromodichloromethane	<44		120	44	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Bromoform	<57		120	57	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Bromomethane	<93		230	93	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Carbon tetrachloride	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Chlorobenzene	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Chloroethane	<59		120	59	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Chloroform	<43		230	43	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Chloromethane	<38		120	38	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
2-Chlorotoluene	<37		120	37	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
4-Chlorotoluene	<41		120	41	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
cis-1,2-Dichloroethene	<48		120	48	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
cis-1,3-Dichloropropene	<49		120	49	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Dibromochloromethane	<57		120	57	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2-Dibromo-3-Chloropropane	<230		590	230	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2-Dibromoethane	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Dibromomethane	<32		120	32	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2-Dichlorobenzene	<39		120	39	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,3-Dichlorobenzene	<47		120	47	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,4-Dichlorobenzene	<43		120	43	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Dichlorodifluoromethane	<79	*	230	79	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,1-Dichloroethane	<48		120	48	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2-Dichloroethane	<46		120	46	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,1-Dichloroethene	<46		120	46	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2-Dichloropropane	<50		120	50	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,3-Dichloropropane	<42		120	42	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
2,2-Dichloropropane	<52		120	52	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50

Client Sample ID: GP-8 (5-7.5')

Date Collected: 02/06/17 09:45
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-4
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<35		120	35	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Ethylbenzene	<21		29	21	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Hexachlorobutadiene	<52		120	52	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Isopropylbenzene	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Isopropyl ether	<32		120	32	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Methylene Chloride	<190		590	190	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Methyl tert-butyl ether	<46		120	46	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Naphthalene	<39		120	39	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
n-Butylbenzene	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
N-Propylbenzene	<49		120	49	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
p-Isopropyltoluene	<42		120	42	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
sec-Butylbenzene	<47		120	47	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Styrene	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
tert-Butylbenzene	<47		120	47	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,1,1,2-Tetrachloroethane	<54		120	54	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,1,2,2-Tetrachloroethane	<47		120	47	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Tetrachloroethene	**1100**		120	43	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Toluene	<17		29	17	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
trans-1,2-Dichloroethene	<41		120	41	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
trans-1,3-Dichloropropene	<42		120	42	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2,3-Trichlorobenzene	<54		120	54	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2,4-Trichlorobenzene	<40		120	40	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,1,1-Trichloroethane	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,1,2-Trichloroethane	<41		120	41	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Trichloroethene	<19		59	19	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Trichlorofluoromethane	<50		120	50	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2,3-Trichloropropane	<49		120	49	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,2,4-Trimethylbenzene	<42		120	42	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
1,3,5-Trimethylbenzene	<45		120	45	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Vinyl chloride	<31		59	31	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50
Xylenes, Total	<26		59	26	ug/Kg	☼	02/06/17 09:45	02/09/17 14:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*71 - 120*	*02/06/17 09:45*	*02/09/17 14:03*	*50*
Dibromofluoromethane	*104*		*70 - 120*	*02/06/17 09:45*	*02/09/17 14:03*	*50*
1,2-Dichloroethane-d4 (Surr)	*102*		*71 - 127*	*02/06/17 09:45*	*02/09/17 14:03*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*02/06/17 09:45*	*02/09/17 14:03*	*50*

Client Sample ID: GP-9 (2.5-5')

Date Collected: 02/06/17 10:35
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-5
Matrix: Solid
Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<15		25	15	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Bromobenzene	<36		100	36	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Bromochloromethane	<43		100	43	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Bromodichloromethane	<37		100	37	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Bromoform	<49		100	49	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Bromomethane	<80		200	80	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50

Client Sample ID: GP-9 (2.5-5')
Date Collected: 02/06/17 10:35
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-5
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Chlorobenzene	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Chloroethane	<51		100	51	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Chloroform	<37		200	37	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Chloromethane	<32		100	32	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
2-Chlorotoluene	<32		100	32	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
4-Chlorotoluene	<35		100	35	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
cis-1,2-Dichloroethene	<41		100	41	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
cis-1,3-Dichloropropene	<42		100	42	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Dibromochloromethane	<49		100	49	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2-Dibromo-3-Chloropropane	<200		500	200	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2-Dibromoethane	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Dibromomethane	<27		100	27	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2-Dichlorobenzene	<34		100	34	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,3-Dichlorobenzene	<40		100	40	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,4-Dichlorobenzene	<37		100	37	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Dichlorodifluoromethane	<68	*	200	68	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1-Dichloroethane	<41		100	41	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2-Dichloroethane	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1-Dichloroethene	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2-Dichloropropane	<43		100	43	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,3-Dichloropropane	<36		100	36	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
2,2-Dichloropropane	<45		100	45	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1-Dichloropropene	<30		100	30	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Ethylbenzene	<18		25	18	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Hexachlorobutadiene	<45		100	45	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Isopropylbenzene	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Isopropyl ether	<28		100	28	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Methylene Chloride	<160		500	160	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Methyl tert-butyl ether	<40		100	40	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Naphthalene	<34		100	34	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
n-Butylbenzene	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
N-Propylbenzene	<42		100	42	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
p-Isopropyltoluene	<36		100	36	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
sec-Butylbenzene	<40		100	40	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Styrene	<39		100	39	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
tert-Butylbenzene	<40		100	40	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1,1,2-Tetrachloroethane	<46		100	46	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1,2,2-Tetrachloroethane	<40		100	40	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Tetrachloroethene	<37		100	37	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Toluene	<15		25	15	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
trans-1,2-Dichloroethene	<35		100	35	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
trans-1,3-Dichloropropene	<36		100	36	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2,3-Trichlorobenzene	<46		100	46	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2,4-Trichlorobenzene	<34		100	34	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1,1-Trichloroethane	<38		100	38	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,1,2-Trichloroethane	<35		100	35	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Trichloroethene	<16		50	16	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Trichlorofluoromethane	<43		100	43	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50

Client Sample ID: GP-9 (2.5-5')

Lab Sample ID: 500-123596-5
Date Collected: 02/06/17 10:35
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<42		100	42	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,2,4-Trimethylbenzene	<36		100	36	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
1,3,5-Trimethylbenzene	<38		100	38	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Vinyl chloride	<26		50	26	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50
Xylenes, Total	<22		50	22	ug/Kg	☼	02/06/17 10:35	02/09/17 14:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*71 - 120*	*02/06/17 10:35*	*02/09/17 14:31*	*50*
Dibromofluoromethane	*105*		*70 - 120*	*02/06/17 10:35*	*02/09/17 14:31*	*50*
1,2-Dichloroethane-d4 (Surr)	*103*		*71 - 127*	*02/06/17 10:35*	*02/09/17 14:31*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*02/06/17 10:35*	*02/09/17 14:31*	*50*

Client Sample ID: GP-9 (5-7.5')

Lab Sample ID: 500-123596-6
Date Collected: 02/06/17 10:40
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 79.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<17		29	17	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Bromobenzene	<41		120	41	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Bromochloromethane	<49		120	49	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Bromodichloromethane	<43		120	43	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Bromoform	<56		120	56	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Bromomethane	<92		230	92	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Carbon tetrachloride	<44		120	44	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Chlorobenzene	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Chloroethane	<58		120	58	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Chloroform	<43		230	43	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Chloromethane	<37		120	37	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
2-Chlorotoluene	<36		120	36	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
4-Chlorotoluene	<40		120	40	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
cis-1,2-Dichloroethene	<47		120	47	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
cis-1,3-Dichloropropene	<48		120	48	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Dibromochloromethane	<56		120	56	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2-Dibromo-3-Chloropropane	<230		580	230	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2-Dibromoethane	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Dibromomethane	<31		120	31	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2-Dichlorobenzene	<39		120	39	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,3-Dichlorobenzene	<46		120	46	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,4-Dichlorobenzene	<42		120	42	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Dichlorodifluoromethane	<78	*	230	78	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1-Dichloroethane	<47		120	47	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2-Dichloroethane	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1-Dichloroethene	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2-Dichloropropane	<49		120	49	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,3-Dichloropropane	<42		120	42	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
2,2-Dichloropropane	<51		120	51	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1-Dichloropropene	<34		120	34	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Ethylbenzene	<21		29	21	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Hexachlorobutadiene	<51		120	51	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50

Client Sample ID: GP-9 (5-7.5')

Lab Sample ID: 500-123596-6
Date Collected: 02/06/17 10:40
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<44		120	44	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Isopropyl ether	<32		120	32	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Methylene Chloride	<190		580	190	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Methyl tert-butyl ether	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Naphthalene	<39		120	39	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
n-Butylbenzene	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
N-Propylbenzene	<48		120	48	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
p-Isopropyltoluene	<42		120	42	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
sec-Butylbenzene	<46		120	46	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Styrene	<45		120	45	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
tert-Butylbenzene	<46		120	46	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1,1,2-Tetrachloroethane	<53		120	53	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1,2,2-Tetrachloroethane	<46		120	46	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Tetrachloroethene	<43		120	43	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Toluene	<17		29	17	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
trans-1,2-Dichloroethene	<40		120	40	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
trans-1,3-Dichloropropene	<42		120	42	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2,3-Trichlorobenzene	<53		120	53	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2,4-Trichlorobenzene	<39		120	39	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1,1-Trichloroethane	<44		120	44	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,1,2-Trichloroethane	<41		120	41	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Trichloroethene	<19		58	19	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Trichlorofluoromethane	<49		120	49	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2,3-Trichloropropane	<48		120	48	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,2,4-Trimethylbenzene	<41		120	41	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
1,3,5-Trimethylbenzene	<44		120	44	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Vinyl chloride	<30		58	30	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50
Xylenes, Total	<25		58	25	ug/Kg	☼	02/06/17 10:40	02/09/17 14:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*71 - 120*	*02/06/17 10:40*	*02/09/17 14:59*	*50*
Dibromofluoromethane	*104*		*70 - 120*	*02/06/17 10:40*	*02/09/17 14:59*	*50*
1,2-Dichloroethane-d4 (Surr)	*105*		*71 - 127*	*02/06/17 10:40*	*02/09/17 14:59*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*02/06/17 10:40*	*02/09/17 14:59*	*50*

Client Sample ID: GP-10 (2.5-5')

Lab Sample ID: 500-123596-7
Date Collected: 02/06/17 11:05
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 88.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		22	13	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Bromobenzene	<32		89	32	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Bromochloromethane	<38		89	38	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Bromodichloromethane	<33		89	33	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Bromoform	<43		89	43	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Bromomethane	<71		180	71	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Carbon tetrachloride	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Chlorobenzene	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Chloroethane	<45		89	45	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50

Client Sample ID: GP-10 (2.5-5')
Date Collected: 02/06/17 11:05
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-7
Matrix: Solid
Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<33		180	33	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Chloromethane	<28		89	28	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
2-Chlorotoluene	<28		89	28	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
4-Chlorotoluene	<31		89	31	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
cis-1,2-Dichloroethene	<36		89	36	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
cis-1,3-Dichloropropene	<37		89	37	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Dibromochloromethane	<43		89	43	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2-Dibromo-3-Chloropropane	<180		440	180	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2-Dibromoethane	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Dibromomethane	<24		89	24	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2-Dichlorobenzene	<30		89	30	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,3-Dichlorobenzene	<36		89	36	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,4-Dichlorobenzene	<32		89	32	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Dichlorodifluoromethane	<60	*	180	60	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1-Dichloroethane	<36		89	36	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2-Dichloroethane	<35		89	35	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1-Dichloroethene	<35		89	35	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2-Dichloropropane	<38		89	38	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,3-Dichloropropane	<32		89	32	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
2,2-Dichloropropane	<39		89	39	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1-Dichloropropene	<26		89	26	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Ethylbenzene	<16		22	16	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Hexachlorobutadiene	<40		89	40	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Isopropylbenzene	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Isopropyl ether	<25		89	25	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Methylene Chloride	<140		440	140	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Methyl tert-butyl ether	<35		89	35	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Naphthalene	<30		89	30	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
n-Butylbenzene	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
N-Propylbenzene	<37		89	37	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
p-Isopropyltoluene	<32		89	32	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
sec-Butylbenzene	<35		89	35	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Styrene	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
tert-Butylbenzene	<35		89	35	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1,1,2-Tetrachloroethane	<41		89	41	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1,2,2-Tetrachloroethane	<35		89	35	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Tetrachloroethene	**850**		89	33	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Toluene	<13		22	13	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
trans-1,2-Dichloroethene	<31		89	31	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
trans-1,3-Dichloropropene	<32		89	32	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2,3-Trichlorobenzene	<41		89	41	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2,4-Trichlorobenzene	<30		89	30	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1,1-Trichloroethane	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,1,2-Trichloroethane	<31		89	31	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Trichloroethene	<15		44	15	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Trichlorofluoromethane	<38		89	38	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2,3-Trichloropropane	<37		89	37	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,2,4-Trimethylbenzene	<32		89	32	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
1,3,5-Trimethylbenzene	<34		89	34	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50

Client Sample ID: GP-10 (2.5-5')

Lab Sample ID: 500-123596-7
Date Collected: 02/06/17 11:05
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<23		44	23	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50
Xylenes, Total	<20		44	20	ug/Kg	☼	02/06/17 11:05	02/09/17 15:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*71 - 120*	*02/06/17 11:05*	*02/09/17 15:27*	*50*
Dibromofluoromethane	*103*		*70 - 120*	*02/06/17 11:05*	*02/09/17 15:27*	*50*
1,2-Dichloroethane-d4 (Surr)	*102*		*71 - 127*	*02/06/17 11:05*	*02/09/17 15:27*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*02/06/17 11:05*	*02/09/17 15:27*	*50*

Client Sample ID: GP-10 (5-7.5')

Lab Sample ID: 500-123596-8
Date Collected: 02/06/17 11:10
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<14		25	14	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Bromobenzene	<35		99	35	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Bromochloromethane	<42		99	42	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Bromodichloromethane	<37		99	37	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Bromoform	<48		99	48	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Bromomethane	<79		200	79	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Carbon tetrachloride	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Chlorobenzene	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Chloroethane	<50		99	50	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Chloroform	<37		200	37	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Chloromethane	<32		99	32	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
2-Chlorotoluene	<31		99	31	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
4-Chlorotoluene	<35		99	35	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
cis-1,2-Dichloroethene	<40		99	40	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
cis-1,3-Dichloropropene	<41		99	41	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Dibromochloromethane	<48		99	48	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2-Dibromo-3-Chloropropane	<200		490	200	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2-Dibromoethane	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Dibromomethane	<27		99	27	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2-Dichlorobenzene	<33		99	33	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,3-Dichlorobenzene	<40		99	40	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,4-Dichlorobenzene	<36		99	36	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Dichlorodifluoromethane	<67	*	200	67	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1-Dichloroethane	<41		99	41	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2-Dichloroethane	<39		99	39	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1-Dichloroethene	<39		99	39	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2-Dichloropropane	<42		99	42	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,3-Dichloropropane	<36		99	36	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
2,2-Dichloropropane	<44		99	44	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1-Dichloropropene	<29		99	29	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Ethylbenzene	<18		25	18	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Hexachlorobutadiene	<44		99	44	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Isopropylbenzene	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Isopropyl ether	<27		99	27	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Methylene Chloride	<160		490	160	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50

Client Sample ID: GP-10 (5-7.5')

Lab Sample ID: 500-123596-8
Date Collected: 02/06/17 11:10
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<39		99	39	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Naphthalene	<33		99	33	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
n-Butylbenzene	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
N-Propylbenzene	<41		99	41	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
p-Isopropyltoluene	<36		99	36	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
sec-Butylbenzene	<39		99	39	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Styrene	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
tert-Butylbenzene	<39		99	39	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1,1,2-Tetrachloroethane	<46		99	46	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1,2,2-Tetrachloroethane	<39		99	39	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Tetrachloroethene	**3200**		99	37	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Toluene	<15		25	15	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
trans-1,2-Dichloroethene	<35		99	35	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
trans-1,3-Dichloropropene	<36		99	36	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2,3-Trichlorobenzene	<45		99	45	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2,4-Trichlorobenzene	<34		99	34	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1,1-Trichloroethane	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,1,2-Trichloroethane	<35		99	35	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Trichloroethene	<16		49	16	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Trichlorofluoromethane	<42		99	42	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2,3-Trichloropropane	<41		99	41	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,2,4-Trimethylbenzene	<35		99	35	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
1,3,5-Trimethylbenzene	<38		99	38	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Vinyl chloride	<26		49	26	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50
Xylenes, Total	<22		49	22	ug/Kg	☼	02/06/17 11:10	02/09/17 15:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*71 - 120*	*02/06/17 11:10*	*02/09/17 15:55*	*50*
Dibromofluoromethane	*103*		*70 - 120*	*02/06/17 11:10*	*02/09/17 15:55*	*50*
1,2-Dichloroethane-d4 (Surr)	*103*		*71 - 127*	*02/06/17 11:10*	*02/09/17 15:55*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*02/06/17 11:10*	*02/09/17 15:55*	*50*

Client Sample ID: GP-11 (0-2.5')

Lab Sample ID: 500-123596-9
Date Collected: 02/06/17 11:25
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		23	13	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Bromobenzene	<33		91	33	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Bromochloromethane	<39		91	39	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Bromodichloromethane	<34		91	34	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Bromoform	<44		91	44	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Bromomethane	<73		180	73	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Carbon tetrachloride	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Chlorobenzene	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Chloroethane	<46		91	46	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Chloroform	<34		180	34	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Chloromethane	<29		91	29	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
2-Chlorotoluene	<29		91	29	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50

Client Sample ID: GP-11 (0-2.5')
Lab Sample ID: 500-123596-9
Date Collected: 02/06/17 11:25
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<32		91	32	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
cis-1,2-Dichloroethene	<37		91	37	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
cis-1,3-Dichloropropene	<38		91	38	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Dibromochloromethane	<45		91	45	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2-Dibromo-3-Chloropropane	<180		460	180	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2-Dibromoethane	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Dibromomethane	<25		91	25	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2-Dichlorobenzene	<31		91	31	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,3-Dichlorobenzene	<37		91	37	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,4-Dichlorobenzene	<33		91	33	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Dichlorodifluoromethane	<62	*	180	62	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1-Dichloroethane	<37		91	37	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2-Dichloroethane	<36		91	36	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1-Dichloroethene	<36		91	36	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2-Dichloropropane	<39		91	39	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,3-Dichloropropane	<33		91	33	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
2,2-Dichloropropane	<41		91	41	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1-Dichloropropene	<27		91	27	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Ethylbenzene	<17		23	17	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Hexachlorobutadiene	<41		91	41	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Isopropylbenzene	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Isopropyl ether	<25		91	25	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Methylene Chloride	<150		460	150	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Methyl tert-butyl ether	<36		91	36	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Naphthalene	<31		91	31	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
n-Butylbenzene	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
N-Propylbenzene	<38		91	38	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
p-Isopropyltoluene	<33		91	33	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
sec-Butylbenzene	<36		91	36	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Styrene	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
tert-Butylbenzene	<36		91	36	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1,1,2-Tetrachloroethane	<42		91	42	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1,2,2-Tetrachloroethane	<36		91	36	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Tetrachloroethene	**15000**		91	34	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Toluene	<13		23	13	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
trans-1,2-Dichloroethene	<32		91	32	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
trans-1,3-Dichloropropene	<33		91	33	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2,3-Trichlorobenzene	<42		91	42	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2,4-Trichlorobenzene	<31		91	31	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1,1-Trichloroethane	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,1,2-Trichloroethane	<32		91	32	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Trichloroethene	<15		46	15	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Trichlorofluoromethane	<39		91	39	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2,3-Trichloropropane	<38		91	38	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,2,4-Trimethylbenzene	<33		91	33	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
1,3,5-Trimethylbenzene	<35		91	35	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Vinyl chloride	<24		46	24	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50
Xylenes, Total	<20		46	20	ug/Kg	☼	02/06/17 11:25	02/09/17 16:23	50

Client Sample ID: GP-11 (0-2.5')

Lab Sample ID: 500-123596-9

Date Collected: 02/06/17 11:25
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 86.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*	*02/06/17 11:25*	*02/09/17 16:23*	*50*
Dibromofluoromethane	*102*		*70 - 120*	*02/06/17 11:25*	*02/09/17 16:23*	*50*
1,2-Dichloroethane-d4 (Surr)	*102*		*71 - 127*	*02/06/17 11:25*	*02/09/17 16:23*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*02/06/17 11:25*	*02/09/17 16:23*	*50*

Client Sample ID: GP-11 (5-7.5')

Lab Sample ID: 500-123596-10

Date Collected: 02/06/17 11:30
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 88.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		21	12	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Bromobenzene	<30		84	30	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Bromochloromethane	<36		84	36	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Bromodichloromethane	<31		84	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Bromoform	<41		84	41	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Bromomethane	<67		170	67	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Carbon tetrachloride	<32		84	32	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Chlorobenzene	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Chloroethane	<43		84	43	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Chloroform	<31		170	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Chloromethane	<27		84	27	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
2-Chlorotoluene	<27		84	27	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
4-Chlorotoluene	<30		84	30	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
cis-1,2-Dichloroethene	<34		84	34	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
cis-1,3-Dichloropropene	<35		84	35	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Dibromochloromethane	<41		84	41	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2-Dibromo-3-Chloropropane	<170		420	170	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2-Dibromoethane	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Dibromomethane	<23		84	23	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2-Dichlorobenzene	<28		84	28	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,3-Dichlorobenzene	<34		84	34	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,4-Dichlorobenzene	<31		84	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Dichlorodifluoromethane	<57	*	170	57	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1-Dichloroethane	<35		84	35	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2-Dichloroethane	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1-Dichloroethene	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2-Dichloropropane	<36		84	36	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,3-Dichloropropane	<31		84	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
2,2-Dichloropropane	<37		84	37	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1-Dichloropropene	<25		84	25	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Ethylbenzene	<15		21	15	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Hexachlorobutadiene	<38		84	38	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Isopropylbenzene	<32		84	32	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Isopropyl ether	<23		84	23	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Methylene Chloride	<140		420	140	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Methyl tert-butyl ether	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Naphthalene	<28		84	28	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
n-Butylbenzene	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
N-Propylbenzene	<35		84	35	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50

Client Sample ID: GP-11 (5-7.5')

Date Collected: 02/06/17 11:30
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-10
Matrix: Solid
Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<31		84	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
sec-Butylbenzene	<34		84	34	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Styrene	<33		84	33	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
tert-Butylbenzene	<34		84	34	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1,1,2-Tetrachloroethane	<39		84	39	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1,2,2-Tetrachloroethane	<34		84	34	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Tetrachloroethene	**17000**		84	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Toluene	<12		21	12	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
trans-1,2-Dichloroethene	<30		84	30	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
trans-1,3-Dichloropropene	<31		84	31	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2,3-Trichlorobenzene	<39		84	39	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2,4-Trichlorobenzene	<29		84	29	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1,1-Trichloroethane	<32		84	32	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,1,2-Trichloroethane	<30		84	30	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Trichloroethene	<14		42	14	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Trichlorofluoromethane	<36		84	36	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2,3-Trichloropropane	<35		84	35	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,2,4-Trimethylbenzene	<30		84	30	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
1,3,5-Trimethylbenzene	<32		84	32	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Vinyl chloride	<22		42	22	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50
Xylenes, Total	<19		42	19	ug/Kg	☼	02/06/17 11:30	02/09/17 16:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*	*02/06/17 11:30*	*02/09/17 16:50*	*50*
Dibromofluoromethane	*103*		*70 - 120*	*02/06/17 11:30*	*02/09/17 16:50*	*50*
1,2-Dichloroethane-d4 (Surr)	*102*		*71 - 127*	*02/06/17 11:30*	*02/09/17 16:50*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*02/06/17 11:30*	*02/09/17 16:50*	*50*

Client Sample ID: MW-1 (2.5-5')

Date Collected: 02/06/17 10:00
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-11
Matrix: Solid
Percent Solids: 90.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		23	13	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Bromobenzene	<33		92	33	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Bromochloromethane	<39		92	39	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Bromodichloromethane	<34		92	34	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Bromoform	<44		92	44	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Bromomethane	<73		180	73	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Carbon tetrachloride	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Chlorobenzene	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Chloroethane	<46		92	46	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Chloroform	<34		180	34	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Chloromethane	<29		92	29	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
2-Chlorotoluene	<29		92	29	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
4-Chlorotoluene	<32		92	32	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
cis-1,2-Dichloroethene	<37		92	37	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
cis-1,3-Dichloropropene	<38		92	38	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Dibromochloromethane	<45		92	45	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50

Client Sample ID: MW-1 (2.5-5')
Date Collected: 02/06/17 10:00
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-11
Matrix: Solid
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<180		460	180	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2-Dibromoethane	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Dibromomethane	<25		92	25	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2-Dichlorobenzene	<31		92	31	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,3-Dichlorobenzene	<37		92	37	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,4-Dichlorobenzene	<33		92	33	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Dichlorodifluoromethane	<62	*	180	62	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1-Dichloroethane	<38		92	38	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2-Dichloroethane	<36		92	36	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1-Dichloroethene	<36		92	36	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2-Dichloropropane	<39		92	39	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,3-Dichloropropane	<33		92	33	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
2,2-Dichloropropane	<41		92	41	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1-Dichloropropene	<27		92	27	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Ethylbenzene	<17		23	17	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Hexachlorobutadiene	<41		92	41	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Isopropylbenzene	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Isopropyl ether	<25		92	25	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Methylene Chloride	<150		460	150	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Methyl tert-butyl ether	<36		92	36	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Naphthalene	<31		92	31	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
n-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
N-Propylbenzene	<38		92	38	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
p-Isopropyltoluene	<33		92	33	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
sec-Butylbenzene	<37		92	37	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Styrene	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
tert-Butylbenzene	<37		92	37	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1,1,2-Tetrachloroethane	<42		92	42	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1,2,2-Tetrachloroethane	<37		92	37	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Tetrachloroethene	<34		92	34	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Toluene	<13		23	13	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
trans-1,2-Dichloroethene	<32		92	32	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
trans-1,3-Dichloropropene	<33		92	33	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2,3-Trichlorobenzene	<42		92	42	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2,4-Trichlorobenzene	<31		92	31	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1,1-Trichloroethane	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,1,2-Trichloroethane	<32		92	32	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Trichloroethene	<15		46	15	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Trichlorofluoromethane	<39		92	39	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2,3-Trichloropropane	<38		92	38	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,2,4-Trimethylbenzene	<33		92	33	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
1,3,5-Trimethylbenzene	<35		92	35	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Vinyl chloride	<24		46	24	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50
Xylenes, Total	<20		46	20	ug/Kg	☼	02/06/17 10:00	02/09/17 17:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*71 - 120*	*02/06/17 10:00*	*02/09/17 17:18*	*50*
Dibromofluoromethane	*104*		*70 - 120*	*02/06/17 10:00*	*02/09/17 17:18*	*50*
1,2-Dichloroethane-d4 (Surr)	*102*		*71 - 127*	*02/06/17 10:00*	*02/09/17 17:18*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*02/06/17 10:00*	*02/09/17 17:18*	*50*

Client Sample ID: MW-1 (5-7.5')

Date Collected: 02/06/17 10:05
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-12

Matrix: Solid
Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<24		41	24	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Bromobenzene	<58		160	58	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Bromochloromethane	<70		160	70	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Bromodichloromethane	<61		160	61	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Bromoform	<79		160	79	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Bromomethane	<130		330	130	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Carbon tetrachloride	<63		160	63	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Chlorobenzene	<63		160	63	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Chloroethane	<82		160	82	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Chloroform	<61		330	61	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Chloromethane	<52		160	52	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
2-Chlorotoluene	<51		160	51	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
4-Chlorotoluene	<57		160	57	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
cis-1,2-Dichloroethene	<67		160	67	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
cis-1,3-Dichloropropene	<68		160	68	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Dibromochloromethane	<80		160	80	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2-Dibromo-3-Chloropropane	<330		820	330	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2-Dibromoethane	<63		160	63	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Dibromomethane	<44		160	44	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2-Dichlorobenzene	<55		160	55	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,3-Dichlorobenzene	<65		160	65	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,4-Dichlorobenzene	<60		160	60	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Dichlorodifluoromethane	<110	*	330	110	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1-Dichloroethane	<67		160	67	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2-Dichloroethane	<64		160	64	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1-Dichloroethene	<64		160	64	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2-Dichloropropane	<70		160	70	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,3-Dichloropropane	<59		160	59	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
2,2-Dichloropropane	<73		160	73	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1-Dichloropropene	<49		160	49	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Ethylbenzene	<30		41	30	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Hexachlorobutadiene	<73		160	73	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Isopropylbenzene	<63		160	63	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Isopropyl ether	<45		160	45	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Methylene Chloride	<270		820	270	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Methyl tert-butyl ether	<64		160	64	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Naphthalene	<55		160	55	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
n-Butylbenzene	<63		160	63	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
N-Propylbenzene	<68		160	68	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
p-Isopropyltoluene	<59		160	59	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
sec-Butylbenzene	<65		160	65	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Styrene	<63		160	63	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
tert-Butylbenzene	<65		160	65	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1,1,2-Tetrachloroethane	<76		160	76	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1,2,2-Tetrachloroethane	<65		160	65	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Tetrachloroethene	<61		160	61	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Toluene	<24		41	24	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
trans-1,2-Dichloroethene	<57		160	57	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
trans-1,3-Dichloropropene	<59		160	59	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50

Client Sample ID: MW-1 (5-7.5')

Lab Sample ID: 500-123596-12
Date Collected: 02/06/17 10:05
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<75		160	75	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2,4-Trichlorobenzene	<56		160	56	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1,1-Trichloroethane	<62		160	62	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,1,2-Trichloroethane	<58		160	58	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Trichloroethene	<27		82	27	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Trichlorofluoromethane	<70		160	70	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2,3-Trichloropropane	<68		160	68	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,2,4-Trimethylbenzene	<59		160	59	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
1,3,5-Trimethylbenzene	<62		160	62	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Vinyl chloride	<43		82	43	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50
Xylenes, Total	<36		82	36	ug/Kg	☼	02/06/17 10:05	02/09/17 17:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*	*02/06/17 10:05*	*02/09/17 17:46*	*50*
Dibromofluoromethane	*103*		*70 - 120*	*02/06/17 10:05*	*02/09/17 17:46*	*50*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 127*	*02/06/17 10:05*	*02/09/17 17:46*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*02/06/17 10:05*	*02/09/17 17:46*	*50*

Client Sample ID: MW-2 (2.5-5')

Lab Sample ID: 500-123596-13
Date Collected: 02/06/17 11:55
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 88.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		23	13	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Bromobenzene	<33		92	33	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Bromochloromethane	<39		92	39	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Bromodichloromethane	<34		92	34	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Bromoform	<44		92	44	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Bromomethane	<73		180	73	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Carbon tetrachloride	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Chlorobenzene	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Chloroethane	<46		92	46	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Chloroform	<34		180	34	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Chloromethane	<29		92	29	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
2-Chlorotoluene	<29		92	29	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
4-Chlorotoluene	<32		92	32	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
cis-1,2-Dichloroethene	<37		92	37	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
cis-1,3-Dichloropropene	<38		92	38	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Dibromochloromethane	<45		92	45	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2-Dibromo-3-Chloropropane	<180		460	180	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2-Dibromoethane	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Dibromomethane	<25		92	25	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2-Dichlorobenzene	<31		92	31	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,3-Dichlorobenzene	<37		92	37	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,4-Dichlorobenzene	<33		92	33	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Dichlorodifluoromethane	<62	*	180	62	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1-Dichloroethane	<38		92	38	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2-Dichloroethane	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1-Dichloroethene	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50

Client Sample ID: MW-2 (2.5-5')

Date Collected: 02/06/17 11:55
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-13
Matrix: Solid
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<39		92	39	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,3-Dichloropropane	<33		92	33	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
2,2-Dichloropropane	<41		92	41	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1-Dichloropropene	<27		92	27	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Ethylbenzene	<17		23	17	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Hexachlorobutadiene	<41		92	41	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Isopropylbenzene	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Isopropyl ether	<25		92	25	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Methylene Chloride	<150		460	150	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Methyl tert-butyl ether	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Naphthalene	<31		92	31	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
n-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
N-Propylbenzene	<38		92	38	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
p-Isopropyltoluene	<33		92	33	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
sec-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Styrene	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
tert-Butylbenzene	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1,1,2-Tetrachloroethane	<42		92	42	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1,2,2-Tetrachloroethane	<36		92	36	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Tetrachloroethene	**510**		92	34	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Toluene	<13		23	13	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
trans-1,2-Dichloroethene	<32		92	32	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
trans-1,3-Dichloropropene	<33		92	33	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2,3-Trichlorobenzene	<42		92	42	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2,4-Trichlorobenzene	<31		92	31	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1,1-Trichloroethane	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,1,2-Trichloroethane	<32		92	32	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Trichloroethene	<15		46	15	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Trichlorofluoromethane	<39		92	39	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2,3-Trichloropropane	<38		92	38	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,2,4-Trimethylbenzene	<33		92	33	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
1,3,5-Trimethylbenzene	<35		92	35	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Vinyl chloride	<24		46	24	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50
Xylenes, Total	<20		46	20	ug/Kg	☼	02/06/17 11:55	02/09/17 18:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*71 - 120*	*02/06/17 11:55*	*02/09/17 18:14*	*50*
Dibromofluoromethane	*102*		*70 - 120*	*02/06/17 11:55*	*02/09/17 18:14*	*50*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 127*	*02/06/17 11:55*	*02/09/17 18:14*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*02/06/17 11:55*	*02/09/17 18:14*	*50*

Client Sample ID: MW-2 (5-7.5')

Date Collected: 02/06/17 12:00
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-14
Matrix: Solid
Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<15		25	15	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Bromobenzene	<36		100	36	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Bromochloromethane	<43		100	43	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50

Client Sample ID: MW-2 (5-7.5')
Date Collected: 02/06/17 12:00
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-14
Matrix: Solid
Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<37		100	37	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Bromoform	<49		100	49	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Bromomethane	<80		200	80	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Carbon tetrachloride	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Chlorobenzene	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Chloroethane	<51		100	51	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Chloroform	<37		200	37	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Chloromethane	<32		100	32	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
2-Chlorotoluene	<32		100	32	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
4-Chlorotoluene	<35		100	35	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
cis-1,2-Dichloroethene	<41		100	41	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
cis-1,3-Dichloropropene	<42		100	42	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Dibromochloromethane	<49		100	49	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2-Dibromo-3-Chloropropane	<200		500	200	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2-Dibromoethane	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Dibromomethane	<27		100	27	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2-Dichlorobenzene	<34		100	34	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,3-Dichlorobenzene	<40		100	40	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,4-Dichlorobenzene	<37		100	37	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Dichlorodifluoromethane	<68	*	200	68	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,1-Dichloroethane	<41		100	41	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2-Dichloroethane	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,1-Dichloroethene	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2-Dichloropropane	<43		100	43	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,3-Dichloropropane	<36		100	36	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
2,2-Dichloropropane	<45		100	45	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,1-Dichloropropene	<30		100	30	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Ethylbenzene	<18		25	18	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Hexachlorobutadiene	<45		100	45	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Isopropylbenzene	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Isopropyl ether	<28		100	28	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Methylene Chloride	<160		500	160	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Methyl tert-butyl ether	<40		100	40	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Naphthalene	<34		100	34	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
n-Butylbenzene	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
N-Propylbenzene	<42		100	42	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
p-Isopropyltoluene	<36		100	36	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
sec-Butylbenzene	<40		100	40	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Styrene	<39		100	39	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
tert-Butylbenzene	<40		100	40	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,1,1,2-Tetrachloroethane	<46		100	46	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,1,2,2-Tetrachloroethane	<40		100	40	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Tetrachloroethene	**130**		100	37	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Toluene	<15		25	15	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
trans-1,2-Dichloroethene	<35		100	35	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
trans-1,3-Dichloropropene	<36		100	36	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2,3-Trichlorobenzene	<46		100	46	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2,4-Trichlorobenzene	<34		100	34	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,1,1-Trichloroethane	<38		100	38	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50

Client Sample ID: MW-2 (5-7.5')

Lab Sample ID: 500-123596-14
Date Collected: 02/06/17 12:00
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<35		100	35	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Trichloroethene	<16		50	16	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Trichlorofluoromethane	<43		100	43	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2,3-Trichloropropane	<42		100	42	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,2,4-Trimethylbenzene	<36		100	36	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
1,3,5-Trimethylbenzene	<38		100	38	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Vinyl chloride	<26		50	26	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50
Xylenes, Total	<22		50	22	ug/Kg	☼	02/06/17 12:00	02/09/17 18:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*71 - 120*	*02/06/17 12:00*	*02/09/17 18:42*	*50*
Dibromofluoromethane	*101*		*70 - 120*	*02/06/17 12:00*	*02/09/17 18:42*	*50*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 127*	*02/06/17 12:00*	*02/09/17 18:42*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*02/06/17 12:00*	*02/09/17 18:42*	*50*

Client Sample ID: MW-3 (0-2.5')

Lab Sample ID: 500-123596-15
Date Collected: 02/06/17 13:50
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 79.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<53		91	53	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Bromobenzene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Bromochloromethane	<160		360	160	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Bromodichloromethane	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Bromoform	<180		360	180	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Bromomethane	<290		730	290	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Carbon tetrachloride	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Chlorobenzene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Chloroethane	<180		360	180	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Chloroform	<130		730	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Chloromethane	<120		360	120	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
2-Chlorotoluene	<110		360	110	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
4-Chlorotoluene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
cis-1,2-Dichloroethene	<150		360	150	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
cis-1,3-Dichloropropene	<150		360	150	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Dibromochloromethane	<180		360	180	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2-Dibromo-3-Chloropropane	<720		1800	720	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2-Dibromoethane	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Dibromomethane	<98		360	98	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2-Dichlorobenzene	<120		360	120	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,3-Dichlorobenzene	<150		360	150	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,4-Dichlorobenzene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Dichlorodifluoromethane	<250	*	730	250	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,1-Dichloroethane	<150		360	150	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2-Dichloroethane	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,1-Dichloroethene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2-Dichloropropane	<160		360	160	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,3-Dichloropropane	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
2,2-Dichloropropane	<160		360	160	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50

Client Sample ID: MW-3 (0-2.5')

Lab Sample ID: 500-123596-15

Date Collected: 02/06/17 13:50

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<110		360	110	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Ethylbenzene	<67		91	67	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Hexachlorobutadiene	<160		360	160	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Isopropylbenzene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Isopropyl ether	<100		360	100	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Methylene Chloride	<590		1800	590	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Methyl tert-butyl ether	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Naphthalene	<120		360	120	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
n-Butylbenzene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
N-Propylbenzene	<150		360	150	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
p-Isopropyltoluene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
sec-Butylbenzene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Styrene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
tert-Butylbenzene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,1,1,2-Tetrachloroethane	<170		360	170	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,1,2,2-Tetrachloroethane	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Tetrachloroethene	**3200**		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Toluene	<54		91	54	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
trans-1,2-Dichloroethene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
trans-1,3-Dichloropropene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2,3-Trichlorobenzene	<170		360	170	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2,4-Trichlorobenzene	<120		360	120	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,1,1-Trichloroethane	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,1,2-Trichloroethane	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Trichloroethene	<60		180	60	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Trichlorofluoromethane	<160		360	160	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2,3-Trichloropropane	<150		360	150	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,2,4-Trimethylbenzene	<130		360	130	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
1,3,5-Trimethylbenzene	<140		360	140	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Vinyl chloride	<95		180	95	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50
Xylenes, Total	<80		180	80	ug/Kg	☼	02/06/17 13:50	02/09/17 19:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*71 - 120*	*02/06/17 13:50*	*02/09/17 19:10*	*50*
Dibromofluoromethane	*102*		*70 - 120*	*02/06/17 13:50*	*02/09/17 19:10*	*50*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 127*	*02/06/17 13:50*	*02/09/17 19:10*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*02/06/17 13:50*	*02/09/17 19:10*	*50*

Client Sample ID: MW-3 (5-7.5')

Lab Sample ID: 500-123596-16

Date Collected: 02/06/17 13:55

Matrix: Solid

Date Received: 02/08/17 10:30

Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		22	13	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Bromobenzene	<31		88	31	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Bromochloromethane	<38		88	38	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Bromodichloromethane	<33		88	33	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Bromoform	<42		88	42	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Bromomethane	<70		180	70	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50

Client Sample ID: MW-3 (5-7.5')
Date Collected: 02/06/17 13:55
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-16
Matrix: Solid
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Chlorobenzene	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Chloroethane	<44		88	44	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Chloroform	<32		180	32	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Chloromethane	<28		88	28	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
2-Chlorotoluene	<28		88	28	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
4-Chlorotoluene	<31		88	31	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
cis-1,2-Dichloroethene	<36		88	36	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
cis-1,3-Dichloropropene	<37		88	37	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Dibromochloromethane	<43		88	43	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2-Dibromo-3-Chloropropane	<170		440	170	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2-Dibromoethane	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Dibromomethane	<24		88	24	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2-Dichlorobenzene	<29		88	29	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,3-Dichlorobenzene	<35		88	35	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,4-Dichlorobenzene	<32		88	32	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Dichlorodifluoromethane	<59	*	180	59	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1-Dichloroethane	<36		88	36	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2-Dichloroethane	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1-Dichloroethene	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2-Dichloropropane	<38		88	38	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,3-Dichloropropane	<32		88	32	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
2,2-Dichloropropane	<39		88	39	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1-Dichloropropene	<26		88	26	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Ethylbenzene	<16		22	16	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Hexachlorobutadiene	<39		88	39	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Isopropylbenzene	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Isopropyl ether	<24		88	24	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Methylene Chloride	<140		440	140	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Methyl tert-butyl ether	<35		88	35	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Naphthalene	<29		88	29	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
n-Butylbenzene	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
N-Propylbenzene	<36		88	36	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
p-Isopropyltoluene	<32		88	32	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
sec-Butylbenzene	<35		88	35	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Styrene	<34		88	34	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
tert-Butylbenzene	<35		88	35	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1,1,2-Tetrachloroethane	<41		88	41	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1,2,2-Tetrachloroethane	<35		88	35	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Tetrachloroethene	**3000**		88	32	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Toluene	<13		22	13	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
trans-1,2-Dichloroethene	<31		88	31	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
trans-1,3-Dichloropropene	<32		88	32	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2,3-Trichlorobenzene	<40		88	40	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2,4-Trichlorobenzene	<30		88	30	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1,1-Trichloroethane	<33		88	33	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,1,2-Trichloroethane	<31		88	31	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Trichloroethene	<14		44	14	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Trichlorofluoromethane	<38		88	38	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50

Client Sample ID: MW-3 (5-7.5')

Lab Sample ID: 500-123596-16
Date Collected: 02/06/17 13:55
Matrix: Solid
Date Received: 02/08/17 10:30
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<36		88	36	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,2,4-Trimethylbenzene	<31		88	31	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
1,3,5-Trimethylbenzene	<33		88	33	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Vinyl chloride	<23		44	23	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50
Xylenes, Total	<19		44	19	ug/Kg	☼	02/06/17 13:55	02/10/17 16:06	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*71 - 120*	*02/06/17 13:55*	*02/10/17 16:06*	*50*
Dibromofluoromethane	*101*		*70 - 120*	*02/06/17 13:55*	*02/10/17 16:06*	*50*
1,2-Dichloroethane-d4 (Surr)	*95*		*71 - 127*	*02/06/17 13:55*	*02/10/17 16:06*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*02/06/17 13:55*	*02/10/17 16:06*	*50*

Client Sample ID: Trip Blank

Lab Sample ID: 500-123596-17
Date Collected: 02/06/17 00:00
Matrix: Water
Date Received: 02/08/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/10/17 16:34	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/10/17 16:34	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/10/17 16:34	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/10/17 16:34	1
Bromoform	<0.48		1.0	0.48	ug/L			02/10/17 16:34	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/10/17 16:34	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/10/17 16:34	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/10/17 16:34	1
Chloroform	<0.37		2.0	0.37	ug/L			02/10/17 16:34	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/10/17 16:34	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/10/17 16:34	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/10/17 16:34	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/10/17 16:34	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/10/17 16:34	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/10/17 16:34	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/10/17 16:34	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/10/17 16:34	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/10/17 16:34	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/10/17 16:34	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/10/17 16:34	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/10/17 16:34	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/10/17 16:34	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/10/17 16:34	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/10/17 16:34	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/10/17 16:34	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/10/17 16:34	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/10/17 16:34	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/10/17 16:34	1

Client Sample ID: Trip Blank

Lab Sample ID: 500-123596-17

Date Collected: 02/06/17 00:00

Matrix: Water

Date Received: 02/08/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/10/17 16:34	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/10/17 16:34	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/10/17 16:34	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/10/17 16:34	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/10/17 16:34	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 16:34	1
Styrene	<0.39		1.0	0.39	ug/L			02/10/17 16:34	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 16:34	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/10/17 16:34	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/10/17 16:34	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/10/17 16:34	1
Toluene	<0.15		0.50	0.15	ug/L			02/10/17 16:34	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/10/17 16:34	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/10/17 16:34	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/10/17 16:34	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/10/17 16:34	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/10/17 16:34	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/10/17 16:34	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/10/17 16:34	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/10/17 16:34	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/10/17 16:34	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/10/17 16:34	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/10/17 16:34	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/10/17 16:34	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/10/17 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 127*		*02/10/17 16:34*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*02/10/17 16:34*	*1*
4-Bromofluorobenzene (Surr)	*95*		*71 - 120*		*02/10/17 16:34*	*1*
Dibromofluoromethane	*102*		*70 - 120*		*02/10/17 16:34*	*1*

Client Sample ID: GP-7

Lab Sample ID: 500-123596-18

Date Collected: 02/06/17 10:10

Matrix: Water

Date Received: 02/08/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/10/17 17:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/10/17 17:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/10/17 17:02	1
Bromoform	<0.48		1.0	0.48	ug/L			02/10/17 17:02	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/10/17 17:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/10/17 17:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/10/17 17:02	1

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-7
Date Collected: 02/06/17 10:10
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.37		2.0	0.37	ug/L			02/10/17 17:02	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/10/17 17:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/10/17 17:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/10/17 17:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/10/17 17:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/10/17 17:02	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/10/17 17:02	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/10/17 17:02	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/10/17 17:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/10/17 17:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:02	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/10/17 17:02	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/10/17 17:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/10/17 17:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/10/17 17:02	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/10/17 17:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/10/17 17:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/10/17 17:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/10/17 17:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/10/17 17:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/10/17 17:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/10/17 17:02	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/10/17 17:02	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/10/17 17:02	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:02	1
Styrene	<0.39		1.0	0.39	ug/L			02/10/17 17:02	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:02	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/10/17 17:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/10/17 17:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/10/17 17:02	1
Toluene	<0.15		0.50	0.15	ug/L			02/10/17 17:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/10/17 17:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/10/17 17:02	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/10/17 17:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/10/17 17:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/10/17 17:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/10/17 17:02	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/10/17 17:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/10/17 17:02	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/10/17 17:02	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/10/17 17:02	1

Client Sample ID: GP-7

Lab Sample ID: 500-123596-18

Date Collected: 02/06/17 10:10

Matrix: Water

Date Received: 02/08/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/10/17 17:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/10/17 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*71 - 127*		*02/10/17 17:02*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*02/10/17 17:02*	*1*
4-Bromofluorobenzene (Surr)	*95*		*71 - 120*		*02/10/17 17:02*	*1*
Dibromofluoromethane	*103*		*70 - 120*		*02/10/17 17:02*	*1*

Client Sample ID: GP-8

Lab Sample ID: 500-123596-19

Date Collected: 02/06/17 10:15

Matrix: Water

Date Received: 02/08/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/10/17 17:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/10/17 17:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/10/17 17:30	1
Bromoform	<0.48		1.0	0.48	ug/L			02/10/17 17:30	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/10/17 17:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/10/17 17:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/10/17 17:30	1
Chloroform	<0.37		2.0	0.37	ug/L			02/10/17 17:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/10/17 17:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/10/17 17:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/10/17 17:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/10/17 17:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/10/17 17:30	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/10/17 17:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/10/17 17:30	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/10/17 17:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/10/17 17:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:30	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/10/17 17:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/10/17 17:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/10/17 17:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/10/17 17:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/10/17 17:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/10/17 17:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/10/17 17:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/10/17 17:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/10/17 17:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/10/17 17:30	1

Client Sample ID: GP-8

Lab Sample ID: 500-123596-19

Date Collected: 02/06/17 10:15

Matrix: Water

Date Received: 02/08/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/10/17 17:30	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/10/17 17:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/10/17 17:30	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:30	1
Styrene	<0.39		1.0	0.39	ug/L			02/10/17 17:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:30	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/10/17 17:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/10/17 17:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/10/17 17:30	1
Toluene	<0.15		0.50	0.15	ug/L			02/10/17 17:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/10/17 17:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/10/17 17:30	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/10/17 17:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/10/17 17:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/10/17 17:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/10/17 17:30	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/10/17 17:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/10/17 17:30	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/10/17 17:30	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/10/17 17:30	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/10/17 17:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/10/17 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*71 - 127*		*02/10/17 17:30*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*02/10/17 17:30*	*1*
4-Bromofluorobenzene (Surr)	*97*		*71 - 120*		*02/10/17 17:30*	*1*
Dibromofluoromethane	*102*		*70 - 120*		*02/10/17 17:30*	*1*

Client Sample ID: GP-9

Lab Sample ID: 500-123596-20

Date Collected: 02/06/17 12:55

Matrix: Water

Date Received: 02/08/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/10/17 17:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/10/17 17:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/10/17 17:58	1
Bromoform	<0.48		1.0	0.48	ug/L			02/10/17 17:58	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/10/17 17:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/10/17 17:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/10/17 17:58	1
Chloroform	<0.37		2.0	0.37	ug/L			02/10/17 17:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/10/17 17:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/10/17 17:58	1

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-9
Date Collected: 02/06/17 12:55
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/10/17 17:58	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/10/17 17:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/10/17 17:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/10/17 17:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/10/17 17:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/10/17 17:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/10/17 17:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:58	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/10/17 17:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/10/17 17:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/10/17 17:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/10/17 17:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/10/17 17:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/10/17 17:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/10/17 17:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/10/17 17:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/10/17 17:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/10/17 17:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/10/17 17:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/10/17 17:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/10/17 17:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:58	1
Styrene	<0.39		1.0	0.39	ug/L			02/10/17 17:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 17:58	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/10/17 17:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/10/17 17:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/10/17 17:58	1
Toluene	<0.15		0.50	0.15	ug/L			02/10/17 17:58	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/10/17 17:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/10/17 17:58	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/10/17 17:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/10/17 17:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/10/17 17:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/10/17 17:58	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/10/17 17:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/10/17 17:58	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/10/17 17:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/10/17 17:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/10/17 17:58	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/10/17 17:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/10/17 17:58	1

Client Sample ID: GP-9

Lab Sample ID: 500-123596-20

Date Collected: 02/06/17 12:55

Matrix: Water

Date Received: 02/08/17 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 127*		*02/10/17 17:58*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*02/10/17 17:58*	*1*
4-Bromofluorobenzene (Surr)	*96*		*71 - 120*		*02/10/17 17:58*	*1*
Dibromofluoromethane	*101*		*70 - 120*		*02/10/17 17:58*	*1*

Client Sample ID: GP-10

Lab Sample ID: 500-123596-21

Date Collected: 02/06/17 12:40

Matrix: Water

Date Received: 02/08/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/15/17 13:57	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/15/17 13:57	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/15/17 13:57	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/15/17 13:57	1
Bromoform	<0.48		1.0	0.48	ug/L			02/15/17 13:57	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/15/17 13:57	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/15/17 13:57	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/15/17 13:57	1
Chloroform	<0.37		2.0	0.37	ug/L			02/15/17 13:57	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/15/17 13:57	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/15/17 13:57	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/15/17 13:57	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/15/17 13:57	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/15/17 13:57	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/15/17 13:57	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/15/17 13:57	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/15/17 13:57	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/15/17 13:57	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/15/17 13:57	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/15/17 13:57	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/15/17 13:57	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/15/17 13:57	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/15/17 13:57	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/15/17 13:57	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/15/17 13:57	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/15/17 13:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/15/17 13:57	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/15/17 13:57	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/15/17 13:57	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/15/17 13:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/15/17 13:57	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/15/17 13:57	1

Client Sample ID: GP-10

Lab Sample ID: 500-123596-21

Date Collected: 02/06/17 12:40

Matrix: Water

Date Received: 02/08/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/15/17 13:57	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/15/17 13:57	1
Styrene	<0.39		1.0	0.39	ug/L			02/15/17 13:57	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/15/17 13:57	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/15/17 13:57	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/15/17 13:57	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/15/17 13:57	1
Toluene	<0.15		0.50	0.15	ug/L			02/15/17 13:57	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/15/17 13:57	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/15/17 13:57	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/15/17 13:57	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/15/17 13:57	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/15/17 13:57	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/15/17 13:57	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/15/17 13:57	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/15/17 13:57	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/15/17 13:57	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/15/17 13:57	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/15/17 13:57	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/15/17 13:57	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/15/17 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*71 - 127*		*02/15/17 13:57*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*02/15/17 13:57*	*1*
4-Bromofluorobenzene (Surr)	*100*		*71 - 120*		*02/15/17 13:57*	*1*
Dibromofluoromethane	*95*		*70 - 120*		*02/15/17 13:57*	*1*

Client Sample ID: GP-11

Lab Sample ID: 500-123596-22

Date Collected: 02/06/17 12:45

Matrix: Water

Date Received: 02/08/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/15/17 14:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/15/17 14:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/15/17 14:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/15/17 14:24	1
Bromoform	<0.48		1.0	0.48	ug/L			02/15/17 14:24	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/15/17 14:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/15/17 14:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/15/17 14:24	1
Chloroform	<0.37		2.0	0.37	ug/L			02/15/17 14:24	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/15/17 14:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/15/17 14:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/15/17 14:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/15/17 14:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/15/17 14:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/15/17 14:24	1

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-11
Date Collected: 02/06/17 12:45
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/15/17 14:24	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/15/17 14:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/15/17 14:24	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/15/17 14:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/15/17 14:24	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/15/17 14:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/15/17 14:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/15/17 14:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/15/17 14:24	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/15/17 14:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/15/17 14:24	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/15/17 14:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/15/17 14:24	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/15/17 14:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/15/17 14:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/15/17 14:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/15/17 14:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/15/17 14:24	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/15/17 14:24	1
Styrene	<0.39		1.0	0.39	ug/L			02/15/17 14:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/15/17 14:24	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/15/17 14:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/15/17 14:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/15/17 14:24	1
Toluene	<0.15		0.50	0.15	ug/L			02/15/17 14:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/15/17 14:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/15/17 14:24	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/15/17 14:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/15/17 14:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/15/17 14:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/15/17 14:24	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/15/17 14:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/15/17 14:24	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/15/17 14:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/15/17 14:24	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/15/17 14:24	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/15/17 14:24	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/15/17 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*71 - 127*		*02/15/17 14:24*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*02/15/17 14:24*	*1*
4-Bromofluorobenzene (Surr)	*101*		*71 - 120*		*02/15/17 14:24*	*1*
Dibromofluoromethane	*95*		*70 - 120*		*02/15/17 14:24*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 371336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123596-1	GP-7 (0-2')	Total/NA	Solid	5035	
500-123596-2	GP-7 (5-7.5')	Total/NA	Solid	5035	
500-123596-3	GP-8 (2.5-5')	Total/NA	Solid	5035	
500-123596-4	GP-8 (5-7.5')	Total/NA	Solid	5035	
500-123596-5	GP-9 (2.5-5')	Total/NA	Solid	5035	
500-123596-6	GP-9 (5-7.5')	Total/NA	Solid	5035	
500-123596-7	GP-10 (2.5-5')	Total/NA	Solid	5035	
500-123596-8	GP-10 (5-7.5')	Total/NA	Solid	5035	
500-123596-9	GP-11 (0-2.5')	Total/NA	Solid	5035	
500-123596-10	GP-11 (5-7.5')	Total/NA	Solid	5035	
500-123596-11	MW-1 (2.5-5')	Total/NA	Solid	5035	
500-123596-12	MW-1 (5-7.5')	Total/NA	Solid	5035	
500-123596-13	MW-2 (2.5-5')	Total/NA	Solid	5035	
500-123596-14	MW-2 (5-7.5')	Total/NA	Solid	5035	
500-123596-15	MW-3 (0-2.5')	Total/NA	Solid	5035	
500-123596-16	MW-3 (5-7.5')	Total/NA	Solid	5035	
LB3 500-371336/17-A	Method Blank	Total/NA	Solid	5035	
LCS 500-371336/18-A	Lab Control Sample	Total/NA	Solid	5035	
500-123596-15 MS	MW-3 (0-2.5')	Total/NA	Solid	5035	
500-123596-15 MSD	MW-3 (0-2.5')	Total/NA	Solid	5035	

Analysis Batch: 371372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123596-1	GP-7 (0-2')	Total/NA	Solid	8260B	371336
500-123596-2	GP-7 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-3	GP-8 (2.5-5')	Total/NA	Solid	8260B	371336
500-123596-4	GP-8 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-5	GP-9 (2.5-5')	Total/NA	Solid	8260B	371336
500-123596-6	GP-9 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-7	GP-10 (2.5-5')	Total/NA	Solid	8260B	371336
500-123596-8	GP-10 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-9	GP-11 (0-2.5')	Total/NA	Solid	8260B	371336
500-123596-10	GP-11 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-11	MW-1 (2.5-5')	Total/NA	Solid	8260B	371336
500-123596-12	MW-1 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-13	MW-2 (2.5-5')	Total/NA	Solid	8260B	371336
500-123596-14	MW-2 (5-7.5')	Total/NA	Solid	8260B	371336
500-123596-15	MW-3 (0-2.5')	Total/NA	Solid	8260B	371336
LB3 500-371336/17-A	Method Blank	Total/NA	Solid	8260B	371336
MB 500-371372/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-371336/18-A	Lab Control Sample	Total/NA	Solid	8260B	371336
LCS 500-371372/4	Lab Control Sample	Total/NA	Solid	8260B	
500-123596-15 MS	MW-3 (0-2.5')	Total/NA	Solid	8260B	371336
500-123596-15 MSD	MW-3 (0-2.5')	Total/NA	Solid	8260B	371336

Analysis Batch: 371514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123596-17	Trip Blank	Total/NA	Water	8260B	
500-123596-18	GP-7	Total/NA	Water	8260B	
500-123596-19	GP-8	Total/NA	Water	8260B	
500-123596-20	GP-9	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 371514 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-371514/6	Method Blank	Total/NA	Water	8260B	
LCS 500-371514/4	Lab Control Sample	Total/NA	Water	8260B	
500-123596-20 MS	GP-9	Total/NA	Water	8260B	
500-123596-20 MSD	GP-9	Total/NA	Water	8260B	

Analysis Batch: 371515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123596-16	MW-3 (5-7.5')	Total/NA	Solid	8260B	371336
MB 500-371515/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-371515/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 372077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123596-21	GP-10	Total/NA	Water	8260B	
500-123596-22	GP-11	Total/NA	Water	8260B	
MB 500-372077/6	Method Blank	Total/NA	Water	8260B	
LCS 500-372077/4	Lab Control Sample	Total/NA	Water	8260B	

General Chemistry

Analysis Batch: 371426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123596-1	GP-7 (0-2')	Total/NA	Solid	Moisture	
500-123596-2	GP-7 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-3	GP-8 (2.5-5')	Total/NA	Solid	Moisture	
500-123596-4	GP-8 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-5	GP-9 (2.5-5')	Total/NA	Solid	Moisture	
500-123596-6	GP-9 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-7	GP-10 (2.5-5')	Total/NA	Solid	Moisture	
500-123596-8	GP-10 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-9	GP-11 (0-2.5')	Total/NA	Solid	Moisture	
500-123596-10	GP-11 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-11	MW-1 (2.5-5')	Total/NA	Solid	Moisture	
500-123596-12	MW-1 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-13	MW-2 (2.5-5')	Total/NA	Solid	Moisture	
500-123596-14	MW-2 (5-7.5')	Total/NA	Solid	Moisture	
500-123596-15	MW-3 (0-2.5')	Total/NA	Solid	Moisture	
500-123596-16	MW-3 (5-7.5')	Total/NA	Solid	Moisture	

Surrogate Summary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(71-120)	(70-120)	(71-127)	(75-120)
500-123596-1	GP-7 (0-2')	94	105	104	96
500-123596-2	GP-7 (5-7.5')	94	102	100	97
500-123596-3	GP-8 (2.5-5')	95	104	103	96
500-123596-4	GP-8 (5-7.5')	92	104	102	97
500-123596-5	GP-9 (2.5-5')	93	105	103	96
500-123596-6	GP-9 (5-7.5')	92	104	105	96
500-123596-7	GP-10 (2.5-5')	93	103	102	96
500-123596-8	GP-10 (5-7.5')	92	103	103	96
500-123596-9	GP-11 (0-2.5')	94	102	102	96
500-123596-10	GP-11 (5-7.5')	94	103	102	97
500-123596-11	MW-1 (2.5-5')	93	104	102	97
500-123596-12	MW-1 (5-7.5')	94	103	100	96
500-123596-13	MW-2 (2.5-5')	96	102	100	98
500-123596-14	MW-2 (5-7.5')	96	101	96	98
500-123596-15	MW-3 (0-2.5')	97	102	100	98
500-123596-15 MS	MW-3 (0-2.5')	97	98	96	99
500-123596-15 MSD	MW-3 (0-2.5')	98	98	97	98
500-123596-16	MW-3 (5-7.5')	93	101	95	98
LB3 500-371336/17-A	Method Blank	95	105	105	96
LCS 500-371336/18-A	Lab Control Sample	94	97	95	100
LCS 500-371372/4	Lab Control Sample	96	97	93	100
LCS 500-371515/4	Lab Control Sample	94	96	93	101
MB 500-371372/6	Method Blank	93	101	96	97
MB 500-371515/6	Method Blank	94	101	98	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-127)	(75-120)	(71-120)	(70-120)
500-123596-17	Trip Blank	96	98	95	102
500-123596-18	GP-7	98	99	95	103
500-123596-19	GP-8	95	99	97	102
500-123596-20	GP-9	96	99	96	101
500-123596-20 MS	GP-9	94	99	94	98
500-123596-20 MSD	GP-9	96	100	96	99
500-123596-21	GP-10	105	100	100	95
500-123596-22	GP-11	105	100	101	95
LCS 500-371514/4	Lab Control Sample	93	101	94	96
LCS 500-372077/4	Lab Control Sample	101	101	98	94
MB 500-371514/6	Method Blank	98	99	94	101
MB 500-372077/6	Method Blank	104	100	100	95

Surrogate Summary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-371336/17-A
Matrix: Solid
Analysis Batch: 371372

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 371336

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Bromobenzene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Bromochloromethane	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Bromodichloromethane	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Bromoform	<24		50	24	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Bromomethane	<40		100	40	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Carbon tetrachloride	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Chlorobenzene	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Chloroethane	<25		50	25	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Chloroform	<19		100	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Chloromethane	<16		50	16	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
2-Chlorotoluene	<16		50	16	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
4-Chlorotoluene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Dibromochloromethane	<24		50	24	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2-Dibromoethane	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Dibromomethane	<14		50	14	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Dichlorodifluoromethane	<34		100	34	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1-Dichloroethane	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2-Dichloroethane	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1-Dichloroethene	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2-Dichloropropane	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,3-Dichloropropane	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
2,2-Dichloropropane	<22		50	22	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1-Dichloropropene	<15		50	15	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Hexachlorobutadiene	<22		50	22	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Isopropylbenzene	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Isopropyl ether	<14		50	14	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Methylene Chloride	<82		250	82	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Naphthalene	<17		50	17	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
n-Butylbenzene	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
N-Propylbenzene	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
p-Isopropyltoluene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
sec-Butylbenzene	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Styrene	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
tert-Butylbenzene	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Tetrachloroethene	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Toluene	<7.4		13	7.4	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50

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

Lab Sample ID: LB3 500-371336/17-A
Matrix: Solid
Analysis Batch: 371372

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 371336

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Trichloroethene	<8.2		25	8.2	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Trichlorofluoromethane	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Vinyl chloride	<13		25	13	ug/Kg		02/08/17 21:40	02/09/17 11:44	50
Xylenes, Total	<11		25	11	ug/Kg		02/08/17 21:40	02/09/17 11:44	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*71 - 127*	*02/08/17 21:40*	*02/09/17 11:44*	*50*
4-Bromofluorobenzene (Surr)	*95*		*71 - 120*	*02/08/17 21:40*	*02/09/17 11:44*	*50*
Dibromofluoromethane	*105*		*70 - 120*	*02/08/17 21:40*	*02/09/17 11:44*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*02/08/17 21:40*	*02/09/17 11:44*	*50*

Lab Sample ID: LCS 500-371336/18-A
Matrix: Solid
Analysis Batch: 371372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 371336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2500	2380		ug/Kg		95	70 - 125
Bromobenzene	2500	2430		ug/Kg		97	70 - 125
Bromochloromethane	2500	2440		ug/Kg		98	70 - 125
Bromodichloromethane	2500	2290		ug/Kg		92	70 - 125
Bromoform	2500	2520		ug/Kg		101	54 - 128
Bromomethane	2500	2040		ug/Kg		82	40 - 150
Carbon tetrachloride	2500	2560		ug/Kg		102	70 - 125
Chlorobenzene	2500	2530		ug/Kg		101	70 - 125
Chloroethane	2500	2200		ug/Kg		88	60 - 139
Chloroform	2500	2360		ug/Kg		94	70 - 125
Chloromethane	2500	2120		ug/Kg		85	60 - 140
2-Chlorotoluene	2500	2460		ug/Kg		98	69 - 125
4-Chlorotoluene	2500	2420		ug/Kg		97	70 - 125
cis-1,2-Dichloroethene	2500	2430		ug/Kg		97	70 - 125
cis-1,3-Dichloropropene	2500	2300		ug/Kg		92	70 - 125
Dibromochloromethane	2500	2470		ug/Kg		99	66 - 125
1,2-Dibromo-3-Chloropropane	2500	1840		ug/Kg		74	51 - 125
1,2-Dibromoethane	2500	2380		ug/Kg		95	70 - 125
Dibromomethane	2500	2420		ug/Kg		97	70 - 125
1,2-Dichlorobenzene	2500	2400		ug/Kg		96	70 - 125
1,3-Dichlorobenzene	2500	2480		ug/Kg		99	70 - 125
1,4-Dichlorobenzene	2500	2450		ug/Kg		98	70 - 125
Dichlorodifluoromethane	2500	1080	*	ug/Kg		43	51 - 140
1,1-Dichloroethane	2500	2380		ug/Kg		95	70 - 125

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

Lab Sample ID: LCS 500-371336/18-A
Matrix: Solid
Analysis Batch: 371372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 371336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	2500	2320		ug/Kg		93	70 - 125
1,1-Dichloroethene	2500	2420		ug/Kg		97	70 - 125
1,2-Dichloropropane	2500	2470		ug/Kg		99	70 - 125
1,3-Dichloropropane	2500	2440		ug/Kg		97	70 - 125
2,2-Dichloropropane	2500	2190		ug/Kg		87	62 - 125
1,1-Dichloropropene	2500	2440		ug/Kg		98	70 - 125
Ethylbenzene	2500	2560		ug/Kg		102	70 - 125
Hexachlorobutadiene	2500	2740		ug/Kg		110	57 - 140
Isopropylbenzene	2500	2560		ug/Kg		102	70 - 125
Methylene Chloride	2500	2320		ug/Kg		93	68 - 125
Methyl tert-butyl ether	2500	1920		ug/Kg		77	67 - 125
Naphthalene	2500	1780		ug/Kg		71	50 - 136
n-Butylbenzene	2500	2490		ug/Kg		100	70 - 125
N-Propylbenzene	2500	2560		ug/Kg		103	70 - 125
p-Isopropyltoluene	2500	2520		ug/Kg		101	70 - 125
sec-Butylbenzene	2500	2570		ug/Kg		103	70 - 125
Styrene	2500	2490		ug/Kg		100	70 - 125
tert-Butylbenzene	2500	2500		ug/Kg		100	70 - 125
1,1,1,2-Tetrachloroethane	2500	2490		ug/Kg		100	68 - 125
1,1,2,2-Tetrachloroethane	2500	2210		ug/Kg		88	68 - 125
Tetrachloroethene	2500	2630		ug/Kg		105	70 - 125
Toluene	2500	2450		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	2500	2470		ug/Kg		99	70 - 125
trans-1,3-Dichloropropene	2500	2270		ug/Kg		91	70 - 125
1,2,3-Trichlorobenzene	2500	2020		ug/Kg		81	58 - 135
1,2,4-Trichlorobenzene	2500	2130		ug/Kg		85	64 - 126
1,1,1-Trichloroethane	2500	2440		ug/Kg		98	70 - 125
1,1,2-Trichloroethane	2500	2390		ug/Kg		96	70 - 125
Trichloroethene	2500	2590		ug/Kg		103	70 - 125
Trichlorofluoromethane	2500	2290		ug/Kg		92	60 - 126
1,2,3-Trichloropropane	2500	2110		ug/Kg		84	63 - 125
1,2,4-Trimethylbenzene	2500	2490		ug/Kg		99	70 - 125
1,3,5-Trimethylbenzene	2500	2460		ug/Kg		99	70 - 125
Vinyl chloride	2500	2060		ug/Kg		82	70 - 126
Xylenes, Total	5000	4860		ug/Kg		97	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*71 - 127*
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*
Dibromofluoromethane	*97*		*70 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: 500-123596-15 MS
Matrix: Solid
Analysis Batch: 371372

Client Sample ID: MW-3 (0-2.5')
Prep Type: Total/NA
Prep Batch: 371336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<53		18200	15500		ug/Kg	☼	85	70 - 125

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

Lab Sample ID: 500-123596-15 MS
Matrix: Solid
Analysis Batch: 371372

Client Sample ID: MW-3 (0-2.5')
Prep Type: Total/NA
Prep Batch: 371336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	<130		18200	16800		ug/Kg	☼	92	70 - 125
Bromochloromethane	<160		18200	16400		ug/Kg	☼	90	70 - 125
Bromodichloromethane	<140		18200	15400		ug/Kg	☼	85	70 - 125
Bromoform	<180		18200	17700		ug/Kg	☼	97	54 - 128
Bromomethane	<290		18200	12900		ug/Kg	☼	71	40 - 150
Carbon tetrachloride	<140		18200	16200		ug/Kg	☼	89	70 - 125
Chlorobenzene	<140		18200	16500		ug/Kg	☼	90	70 - 125
Chloroethane	<180		18200	15800		ug/Kg	☼	87	60 - 139
Chloroform	<130		18200	15400		ug/Kg	☼	85	70 - 125
Chloromethane	<120		18200	16200		ug/Kg	☼	89	60 - 140
2-Chlorotoluene	<110		18200	16400		ug/Kg	☼	90	69 - 125
4-Chlorotoluene	<130		18200	15700		ug/Kg	☼	86	70 - 125
cis-1,2-Dichloroethene	<150		18200	15900		ug/Kg	☼	87	70 - 125
cis-1,3-Dichloropropene	<150		18200	15200		ug/Kg	☼	84	70 - 125
Dibromochloromethane	<180		18200	16800		ug/Kg	☼	92	66 - 125
1,2-Dibromo-3-Chloropropane	<720		18200	13200		ug/Kg	☼	72	51 - 125
1,2-Dibromoethane	<140		18200	16500		ug/Kg	☼	91	70 - 125
Dibromomethane	<98		18200	16600		ug/Kg	☼	91	70 - 125
1,2-Dichlorobenzene	<120		18200	16100		ug/Kg	☼	89	70 - 125
1,3-Dichlorobenzene	<150		18200	15800		ug/Kg	☼	87	70 - 125
1,4-Dichlorobenzene	<130		18200	15800		ug/Kg	☼	87	70 - 125
Dichlorodifluoromethane	<250	*	18200	10300		ug/Kg	☼	57	51 - 140
1,1-Dichloroethane	<150		18200	15500		ug/Kg	☼	85	70 - 125
1,2-Dichloroethane	<140		18200	15900		ug/Kg	☼	87	70 - 125
1,1-Dichloroethene	<140		18200	15600		ug/Kg	☼	85	70 - 125
1,2-Dichloropropane	<160		18200	16200		ug/Kg	☼	89	70 - 125
1,3-Dichloropropane	<130		18200	16600		ug/Kg	☼	91	70 - 125
2,2-Dichloropropane	<160		18200	13200		ug/Kg	☼	72	62 - 125
1,1-Dichloropropene	<110		18200	15500		ug/Kg	☼	85	70 - 125
Ethylbenzene	<67		18200	16200		ug/Kg	☼	89	70 - 125
Hexachlorobutadiene	<160		18200	16700		ug/Kg	☼	92	57 - 140
Isopropylbenzene	<140		18200	16800		ug/Kg	☼	93	70 - 125
Methylene Chloride	<590		18200	15700		ug/Kg	☼	86	68 - 125
Methyl tert-butyl ether	<140		18200	12900		ug/Kg	☼	71	67 - 125
Naphthalene	<120		18200	12000		ug/Kg	☼	66	50 - 136
n-Butylbenzene	<140		18200	14600		ug/Kg	☼	80	70 - 125
N-Propylbenzene	<150		18200	16400		ug/Kg	☼	90	70 - 125
p-Isopropyltoluene	<130		18200	16700		ug/Kg	☼	92	70 - 125
sec-Butylbenzene	<140		18200	16600		ug/Kg	☼	91	70 - 125
Styrene	<140		18200	16200		ug/Kg	☼	89	70 - 125
tert-Butylbenzene	<140		18200	15800		ug/Kg	☼	87	70 - 125
1,1,1,2-Tetrachloroethane	<170		18200	16700		ug/Kg	☼	91	68 - 125
1,1,2,2-Tetrachloroethane	<140		18200	15800		ug/Kg	☼	87	68 - 125
Tetrachloroethene	3200		18200	19600		ug/Kg	☼	90	70 - 125
Toluene	<54		18200	15800		ug/Kg	☼	87	70 - 125
trans-1,2-Dichloroethene	<130		18200	15700		ug/Kg	☼	87	70 - 125
trans-1,3-Dichloropropene	<130		18200	14800		ug/Kg	☼	81	70 - 125
1,2,3-Trichlorobenzene	<170		18200	12600		ug/Kg	☼	69	58 - 135

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

Lab Sample ID: 500-123596-15 MS
Matrix: Solid
Analysis Batch: 371372

Client Sample ID: MW-3 (0-2.5')
Prep Type: Total/NA
Prep Batch: 371336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	<120		18200	12000		ug/Kg	☼	66	64 - 126
1,1,1-Trichloroethane	<140		18200	15500		ug/Kg	☼	85	70 - 125
1,1,2-Trichloroethane	<130		18200	16900		ug/Kg	☼	93	70 - 125
Trichloroethene	<60		18200	16300		ug/Kg	☼	90	70 - 125
Trichlorofluoromethane	<160		18200	16200		ug/Kg	☼	89	60 - 126
1,2,3-Trichloropropane	<150		18200	15200		ug/Kg	☼	83	63 - 125
1,2,4-Trimethylbenzene	<130		18200	15800		ug/Kg	☼	87	70 - 125
1,3,5-Trimethylbenzene	<140		18200	16100		ug/Kg	☼	88	70 - 125
Vinyl chloride	<95		18200	15600		ug/Kg	☼	86	70 - 126
Xylenes, Total	<80		36400	31000		ug/Kg	☼	85	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 127*
4-Bromofluorobenzene (Surr)	*97*		*71 - 120*
Dibromofluoromethane	*98*		*70 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: 500-123596-15 MSD
Matrix: Solid
Analysis Batch: 371372

Client Sample ID: MW-3 (0-2.5')
Prep Type: Total/NA
Prep Batch: 371336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<53		18200	15800		ug/Kg	☼	87	70 - 125	2	30
Bromobenzene	<130		18200	17500		ug/Kg	☼	96	70 - 125	4	30
Bromochloromethane	<160		18200	17200		ug/Kg	☼	95	70 - 125	5	30
Bromodichloromethane	<140		18200	15800		ug/Kg	☼	87	70 - 125	3	30
Bromoform	<180		18200	18300		ug/Kg	☼	100	54 - 128	3	30
Bromomethane	<290		18200	14600		ug/Kg	☼	80	40 - 150	12	30
Carbon tetrachloride	<140		18200	16200		ug/Kg	☼	89	70 - 125	0	30
Chlorobenzene	<140		18200	16800		ug/Kg	☼	92	70 - 125	2	30
Chloroethane	<180		18200	15700		ug/Kg	☼	86	60 - 139	1	30
Chloroform	<130		18200	15800		ug/Kg	☼	87	70 - 125	2	30
Chloromethane	<120		18200	16600		ug/Kg	☼	91	60 - 140	3	30
2-Chlorotoluene	<110		18200	16700		ug/Kg	☼	92	69 - 125	2	30
4-Chlorotoluene	<130		18200	16300		ug/Kg	☼	89	70 - 125	3	30
cis-1,2-Dichloroethene	<150		18200	16400		ug/Kg	☼	90	70 - 125	3	30
cis-1,3-Dichloropropene	<150		18200	15700		ug/Kg	☼	86	70 - 125	3	30
Dibromochloromethane	<180		18200	17600		ug/Kg	☼	97	66 - 125	5	30
1,2-Dibromo-3-Chloropropane	<720		18200	15000		ug/Kg	☼	82	51 - 125	13	30
1,2-Dibromoethane	<140		18200	17300		ug/Kg	☼	95	70 - 125	5	30
Dibromomethane	<98		18200	17500		ug/Kg	☼	96	70 - 125	5	30
1,2-Dichlorobenzene	<120		18200	17000		ug/Kg	☼	93	70 - 125	5	30
1,3-Dichlorobenzene	<150		18200	16700		ug/Kg	☼	92	70 - 125	5	30
1,4-Dichlorobenzene	<130		18200	16500		ug/Kg	☼	90	70 - 125	4	30
Dichlorodifluoromethane	<250	*	18200	10100		ug/Kg	☼	56	51 - 140	2	30
1,1-Dichloroethane	<150		18200	15900		ug/Kg	☼	87	70 - 125	3	30
1,2-Dichloroethane	<140		18200	16800		ug/Kg	☼	92	70 - 125	5	30
1,1-Dichloroethene	<140		18200	15800		ug/Kg	☼	87	70 - 125	1	30

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

Lab Sample ID: 500-123596-15 MSD
Matrix: Solid
Analysis Batch: 371372

Client Sample ID: MW-3 (0-2.5')
Prep Type: Total/NA
Prep Batch: 371336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	<160		18200	17000		ug/Kg	☼	93	70 - 125	5	30
1,3-Dichloropropane	<130		18200	17200		ug/Kg	☼	95	70 - 125	3	30
2,2-Dichloropropane	<160		18200	13600		ug/Kg	☼	75	62 - 125	3	30
1,1-Dichloropropene	<110		18200	15500		ug/Kg	☼	85	70 - 125	0	30
Ethylbenzene	<67		18200	16500		ug/Kg	☼	91	70 - 125	2	30
Hexachlorobutadiene	<160		18200	17300		ug/Kg	☼	95	57 - 140	4	30
Isopropylbenzene	<140		18200	17200		ug/Kg	☼	95	70 - 125	2	30
Methylene Chloride	<590		18200	16200		ug/Kg	☼	89	68 - 125	3	30
Methyl tert-butyl ether	<140		18200	13600		ug/Kg	☼	75	67 - 125	6	30
Naphthalene	<120		18200	13500		ug/Kg	☼	74	50 - 136	12	30
n-Butylbenzene	<140		18200	15000		ug/Kg	☼	82	70 - 125	3	30
N-Propylbenzene	<150		18200	16700		ug/Kg	☼	92	70 - 125	2	30
p-Isopropyltoluene	<130		18200	17100		ug/Kg	☼	94	70 - 125	2	30
sec-Butylbenzene	<140		18200	17000		ug/Kg	☼	93	70 - 125	2	30
Styrene	<140		18200	16600		ug/Kg	☼	91	70 - 125	2	30
tert-Butylbenzene	<140		18200	16300		ug/Kg	☼	90	70 - 125	3	30
1,1,1,2-Tetrachloroethane	<170		18200	16800		ug/Kg	☼	92	68 - 125	1	30
1,1,2,2-Tetrachloroethane	<140		18200	17400		ug/Kg	☼	95	68 - 125	10	30
Tetrachloroethene	3200		18200	20100		ug/Kg	☼	93	70 - 125	2	30
Toluene	<54		18200	16000		ug/Kg	☼	88	70 - 125	1	30
trans-1,2-Dichloroethene	<130		18200	16100		ug/Kg	☼	88	70 - 125	2	30
trans-1,3-Dichloropropene	<130		18200	15800		ug/Kg	☼	87	70 - 125	7	30
1,2,3-Trichlorobenzene	<170		18200	13800		ug/Kg	☼	76	58 - 135	9	30
1,2,4-Trichlorobenzene	<120		18200	13300		ug/Kg	☼	73	64 - 126	10	30
1,1,1-Trichloroethane	<140		18200	16000		ug/Kg	☼	88	70 - 125	3	30
1,1,2-Trichloroethane	<130		18200	17100		ug/Kg	☼	94	70 - 125	2	30
Trichloroethene	<60		18200	16500		ug/Kg	☼	90	70 - 125	1	30
Trichlorofluoromethane	<160		18200	16000		ug/Kg	☼	88	60 - 126	1	30
1,2,3-Trichloropropane	<150		18200	15700		ug/Kg	☼	86	63 - 125	4	30
1,2,4-Trimethylbenzene	<130		18200	16500		ug/Kg	☼	90	70 - 125	4	30
1,3,5-Trimethylbenzene	<140		18200	16500		ug/Kg	☼	91	70 - 125	3	30
Vinyl chloride	<95		18200	15800		ug/Kg	☼	87	70 - 126	1	30
Xylenes, Total	<80		36400	31500		ug/Kg	☼	86	70 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*71 - 127*
4-Bromofluorobenzene (Surr)	*98*		*71 - 120*
Dibromofluoromethane	*98*		*70 - 120*
Toluene-d8 (Surr)	*98*		*75 - 120*

Lab Sample ID: MB 500-371372/6
Matrix: Solid
Analysis Batch: 371372

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			02/09/17 11:17	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			02/09/17 11:17	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			02/09/17 11:17	1

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

Lab Sample ID: MB 500-371372/6
Matrix: Solid
Analysis Batch: 371372

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			02/09/17 11:17	1
Bromoform	<0.48		1.0	0.48	ug/Kg			02/09/17 11:17	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			02/09/17 11:17	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			02/09/17 11:17	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			02/09/17 11:17	1
Chloroform	<0.37		2.0	0.37	ug/Kg			02/09/17 11:17	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			02/09/17 11:17	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			02/09/17 11:17	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			02/09/17 11:17	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			02/09/17 11:17	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			02/09/17 11:17	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			02/09/17 11:17	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			02/09/17 11:17	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			02/09/17 11:17	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			02/09/17 11:17	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			02/09/17 11:17	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			02/09/17 11:17	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			02/09/17 11:17	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			02/09/17 11:17	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			02/09/17 11:17	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			02/09/17 11:17	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			02/09/17 11:17	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			02/09/17 11:17	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			02/09/17 11:17	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			02/09/17 11:17	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			02/09/17 11:17	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			02/09/17 11:17	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			02/09/17 11:17	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			02/09/17 11:17	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			02/09/17 11:17	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			02/09/17 11:17	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			02/09/17 11:17	1
Styrene	<0.39		1.0	0.39	ug/Kg			02/09/17 11:17	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			02/09/17 11:17	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			02/09/17 11:17	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			02/09/17 11:17	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			02/09/17 11:17	1
Toluene	<0.15		0.25	0.15	ug/Kg			02/09/17 11:17	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			02/09/17 11:17	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			02/09/17 11:17	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			02/09/17 11:17	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			02/09/17 11:17	1

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

Lab Sample ID: MB 500-371372/6
Matrix: Solid
Analysis Batch: 371372

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			02/09/17 11:17	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			02/09/17 11:17	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			02/09/17 11:17	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			02/09/17 11:17	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			02/09/17 11:17	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			02/09/17 11:17	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			02/09/17 11:17	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			02/09/17 11:17	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			02/09/17 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 127*		*02/09/17 11:17*	*1*
4-Bromofluorobenzene (Surr)	*93*		*71 - 120*		*02/09/17 11:17*	*1*
Dibromofluoromethane	*101*		*70 - 120*		*02/09/17 11:17*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*02/09/17 11:17*	*1*

Lab Sample ID: LCS 500-371372/4
Matrix: Solid
Analysis Batch: 371372

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.0		ug/Kg		98	70 - 125
Bromobenzene	50.0	52.4		ug/Kg		105	70 - 125
Bromochloromethane	50.0	50.7		ug/Kg		101	70 - 125
Bromodichloromethane	50.0	48.1		ug/Kg		96	70 - 125
Bromoform	50.0	53.2		ug/Kg		106	54 - 128
Bromomethane	50.0	43.0		ug/Kg		86	40 - 150
Carbon tetrachloride	50.0	50.9		ug/Kg		102	70 - 125
Chlorobenzene	50.0	52.6		ug/Kg		105	70 - 125
Chloroethane	50.0	46.3		ug/Kg		93	60 - 139
Chloroform	50.0	48.7		ug/Kg		97	70 - 125
Chloromethane	50.0	49.5		ug/Kg		99	60 - 140
2-Chlorotoluene	50.0	52.6		ug/Kg		105	69 - 125
4-Chlorotoluene	50.0	51.4		ug/Kg		103	70 - 125
cis-1,2-Dichloroethene	50.0	50.2		ug/Kg		100	70 - 125
cis-1,3-Dichloropropene	50.0	48.7		ug/Kg		97	70 - 125
Dibromochloromethane	50.0	52.0		ug/Kg		104	66 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.6		ug/Kg		81	51 - 125
1,2-Dibromoethane	50.0	50.4		ug/Kg		101	70 - 125
Dibromomethane	50.0	50.3		ug/Kg		101	70 - 125
1,2-Dichlorobenzene	50.0	51.1		ug/Kg		102	70 - 125
1,3-Dichlorobenzene	50.0	52.7		ug/Kg		105	70 - 125
1,4-Dichlorobenzene	50.0	51.9		ug/Kg		104	70 - 125
Dichlorodifluoromethane	50.0	30.4		ug/Kg		61	51 - 140
1,1-Dichloroethane	50.0	49.2		ug/Kg		98	70 - 125
1,2-Dichloroethane	50.0	48.8		ug/Kg		98	70 - 125
1,1-Dichloroethene	50.0	49.4		ug/Kg		99	70 - 125
1,2-Dichloropropane	50.0	51.6		ug/Kg		103	70 - 125

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

Lab Sample ID: LCS 500-371372/4
Matrix: Solid
Analysis Batch: 371372

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	51.1		ug/Kg		102	70 - 125
2,2-Dichloropropane	50.0	44.2		ug/Kg		88	62 - 125
1,1-Dichloropropene	50.0	49.4		ug/Kg		99	70 - 125
Ethylbenzene	50.0	53.0		ug/Kg		106	70 - 125
Hexachlorobutadiene	50.0	56.4		ug/Kg		113	57 - 140
Isopropylbenzene	50.0	54.1		ug/Kg		108	70 - 125
Methylene Chloride	50.0	48.1		ug/Kg		96	68 - 125
Methyl tert-butyl ether	50.0	39.6		ug/Kg		79	67 - 125
Naphthalene	50.0	37.4		ug/Kg		75	50 - 136
n-Butylbenzene	50.0	51.4		ug/Kg		103	70 - 125
N-Propylbenzene	50.0	53.9		ug/Kg		108	70 - 125
p-Isopropyltoluene	50.0	53.0		ug/Kg		106	70 - 125
sec-Butylbenzene	50.0	53.3		ug/Kg		107	70 - 125
Styrene	50.0	52.2		ug/Kg		104	70 - 125
tert-Butylbenzene	50.0	52.9		ug/Kg		106	70 - 125
1,1,1,2-Tetrachloroethane	50.0	51.7		ug/Kg		103	68 - 125
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/Kg		98	68 - 125
Tetrachloroethene	50.0	53.2		ug/Kg		106	70 - 125
Toluene	50.0	50.8		ug/Kg		102	70 - 125
trans-1,2-Dichloroethene	50.0	49.6		ug/Kg		99	70 - 125
trans-1,3-Dichloropropene	50.0	47.9		ug/Kg		96	70 - 125
1,2,3-Trichlorobenzene	50.0	41.2		ug/Kg		82	58 - 135
1,2,4-Trichlorobenzene	50.0	42.5		ug/Kg		85	64 - 126
1,1,1-Trichloroethane	50.0	49.3		ug/Kg		99	70 - 125
1,1,2-Trichloroethane	50.0	50.9		ug/Kg		102	70 - 125
Trichloroethene	50.0	51.2		ug/Kg		102	70 - 125
Trichlorofluoromethane	50.0	48.1		ug/Kg		96	60 - 126
1,2,3-Trichloropropane	50.0	45.8		ug/Kg		92	63 - 125
1,2,4-Trimethylbenzene	50.0	52.3		ug/Kg		105	70 - 125
1,3,5-Trimethylbenzene	50.0	51.7		ug/Kg		103	70 - 125
Vinyl chloride	50.0	46.5		ug/Kg		93	70 - 126
Xylenes, Total	100	100		ug/Kg		100	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 127*
4-Bromofluorobenzene (Surr)	*96*		*71 - 120*
Dibromofluoromethane	*97*		*70 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: MB 500-371514/6
Matrix: Water
Analysis Batch: 371514

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/10/17 10:03	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/10/17 10:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/10/17 10:03	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/10/17 10:03	1

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

Lab Sample ID: MB 500-371514/6
Matrix: Water
Analysis Batch: 371514

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<0.48		1.0	0.48	ug/L			02/10/17 10:03	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/10/17 10:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/10/17 10:03	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/10/17 10:03	1
Chloroform	<0.37		2.0	0.37	ug/L			02/10/17 10:03	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/10/17 10:03	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/10/17 10:03	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/10/17 10:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/10/17 10:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/10/17 10:03	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/10/17 10:03	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/10/17 10:03	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/10/17 10:03	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/10/17 10:03	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/10/17 10:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/10/17 10:03	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/10/17 10:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/10/17 10:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/10/17 10:03	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/10/17 10:03	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/10/17 10:03	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/10/17 10:03	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/10/17 10:03	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/10/17 10:03	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/10/17 10:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/10/17 10:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/10/17 10:03	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/10/17 10:03	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/10/17 10:03	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 10:03	1
Styrene	<0.39		1.0	0.39	ug/L			02/10/17 10:03	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/17 10:03	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/10/17 10:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/10/17 10:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/10/17 10:03	1
Toluene	<0.15		0.50	0.15	ug/L			02/10/17 10:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/10/17 10:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/10/17 10:03	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/10/17 10:03	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/10/17 10:03	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/10/17 10:03	1

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

Lab Sample ID: MB 500-371514/6
Matrix: Water
Analysis Batch: 371514

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/10/17 10:03	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/10/17 10:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/10/17 10:03	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/10/17 10:03	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/10/17 10:03	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/10/17 10:03	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/10/17 10:03	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/10/17 10:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*71 - 127*		*02/10/17 10:03*	*1*
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*		*02/10/17 10:03*	*1*
Dibromofluoromethane	*101*		*70 - 120*		*02/10/17 10:03*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*02/10/17 10:03*	*1*

Lab Sample ID: LCS 500-371514/4
Matrix: Water
Analysis Batch: 371514

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.6		ug/L		99	70 - 125
Bromobenzene	50.0	53.4		ug/L		107	70 - 125
Bromochloromethane	50.0	51.4		ug/L		103	70 - 125
Bromodichloromethane	50.0	48.0		ug/L		96	70 - 125
Bromoform	50.0	54.5		ug/L		109	54 - 128
Bromomethane	50.0	41.2		ug/L		82	40 - 150
Carbon tetrachloride	50.0	53.0		ug/L		106	70 - 125
Chlorobenzene	50.0	53.4		ug/L		107	70 - 125
Chloroethane	50.0	43.6		ug/L		87	60 - 139
Chloroform	50.0	48.9		ug/L		98	70 - 125
Chloromethane	50.0	46.8		ug/L		94	60 - 140
2-Chlorotoluene	50.0	53.0		ug/L		106	69 - 125
4-Chlorotoluene	50.0	52.3		ug/L		105	70 - 125
cis-1,2-Dichloroethene	50.0	51.5		ug/L		103	70 - 125
cis-1,3-Dichloropropene	50.0	49.8		ug/L		100	70 - 125
Dibromochloromethane	50.0	52.8		ug/L		106	66 - 125
1,2-Dibromo-3-Chloropropane	50.0	39.6		ug/L		79	51 - 125
1,2-Dibromoethane	50.0	51.1		ug/L		102	70 - 125
Dibromomethane	50.0	50.8		ug/L		102	70 - 125
1,2-Dichlorobenzene	50.0	51.8		ug/L		104	70 - 125
1,3-Dichlorobenzene	50.0	53.5		ug/L		107	70 - 125
1,4-Dichlorobenzene	50.0	52.3		ug/L		105	70 - 125
Dichlorodifluoromethane	50.0	27.9		ug/L		56	51 - 140
1,1-Dichloroethane	50.0	49.8		ug/L		100	70 - 125
1,2-Dichloroethane	50.0	49.1		ug/L		98	70 - 125
1,1-Dichloroethene	50.0	50.4		ug/L		101	70 - 125
1,2-Dichloropropane	50.0	51.7		ug/L		103	70 - 125
1,3-Dichloropropane	50.0	52.4		ug/L		105	70 - 125

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

Lab Sample ID: LCS 500-371514/4
Matrix: Water
Analysis Batch: 371514

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	44.7		ug/L		89	62 - 125
1,1-Dichloropropene	50.0	50.2		ug/L		100	70 - 125
Ethylbenzene	50.0	54.3		ug/L		109	70 - 125
Hexachlorobutadiene	50.0	59.5		ug/L		119	57 - 140
Isopropylbenzene	50.0	55.2		ug/L		110	70 - 125
Methylene Chloride	50.0	48.8		ug/L		98	68 - 125
Methyl tert-butyl ether	50.0	40.4		ug/L		81	67 - 125
Naphthalene	50.0	37.5		ug/L		75	50 - 136
n-Butylbenzene	50.0	52.6		ug/L		105	70 - 125
N-Propylbenzene	50.0	54.9		ug/L		110	70 - 125
p-Isopropyltoluene	50.0	54.0		ug/L		108	70 - 125
sec-Butylbenzene	50.0	54.6		ug/L		109	70 - 125
Styrene	50.0	52.5		ug/L		105	70 - 125
tert-Butylbenzene	50.0	54.0		ug/L		108	70 - 125
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/L		106	68 - 125
1,1,2,2-Tetrachloroethane	50.0	48.1		ug/L		96	68 - 125
Tetrachloroethene	50.0	56.1		ug/L		112	70 - 125
Toluene	50.0	51.6		ug/L		103	70 - 125
trans-1,2-Dichloroethene	50.0	50.7		ug/L		101	70 - 125
trans-1,3-Dichloropropene	50.0	48.9		ug/L		98	70 - 125
1,2,3-Trichlorobenzene	50.0	42.2		ug/L		84	58 - 135
1,2,4-Trichlorobenzene	50.0	44.4		ug/L		89	64 - 126
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	70 - 125
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	70 - 125
Trichloroethene	50.0	52.9		ug/L		106	70 - 125
Trichlorofluoromethane	50.0	45.3		ug/L		91	60 - 126
1,2,3-Trichloropropane	50.0	45.5		ug/L		91	63 - 125
1,2,4-Trimethylbenzene	50.0	53.1		ug/L		106	70 - 125
1,3,5-Trimethylbenzene	50.0	53.0		ug/L		106	70 - 125
Vinyl chloride	50.0	42.8		ug/L		86	70 - 126
Xylenes, Total	100	103		ug/L		103	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 127*
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*
Dibromofluoromethane	*96*		*70 - 120*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: 500-123596-20 MS
Matrix: Water
Analysis Batch: 371514

Client Sample ID: GP-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.15		50.0	50.0		ug/L		100	70 - 125
Bromobenzene	<0.36		50.0	54.2		ug/L		108	70 - 125
Bromochloromethane	<0.43		50.0	52.6		ug/L		105	70 - 125
Bromodichloromethane	<0.37		50.0	49.7		ug/L		99	70 - 125
Bromoform	<0.48		50.0	56.6		ug/L		113	54 - 128

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

Lab Sample ID: 500-123596-20 MS
Matrix: Water
Analysis Batch: 371514

Client Sample ID: GP-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	<0.80		50.0	39.8		ug/L		80	40 - 150
Carbon tetrachloride	<0.38		50.0	53.5		ug/L		107	70 - 125
Chlorobenzene	<0.39		50.0	54.3		ug/L		109	70 - 125
Chloroethane	<0.51		50.0	46.6		ug/L		93	60 - 139
Chloroform	<0.37		50.0	50.5		ug/L		101	70 - 125
Chloromethane	<0.32		50.0	48.8		ug/L		98	60 - 140
2-Chlorotoluene	<0.31		50.0	52.3		ug/L		105	69 - 125
4-Chlorotoluene	<0.35		50.0	51.2		ug/L		102	70 - 125
cis-1,2-Dichloroethene	<0.41		50.0	52.3		ug/L		105	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	50.1		ug/L		100	70 - 125
Dibromochloromethane	<0.49		50.0	54.3		ug/L		109	66 - 125
1,2-Dibromo-3-Chloropropane	<2.0		50.0	40.3		ug/L		81	51 - 125
1,2-Dibromoethane	<0.39		50.0	52.8		ug/L		106	70 - 125
Dibromomethane	<0.27		50.0	53.0		ug/L		106	70 - 125
1,2-Dichlorobenzene	<0.33		50.0	52.1		ug/L		104	70 - 125
1,3-Dichlorobenzene	<0.40		50.0	52.4		ug/L		105	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	52.2		ug/L		104	70 - 125
Dichlorodifluoromethane	<0.67		50.0	29.2		ug/L		58	51 - 140
1,1-Dichloroethane	<0.41		50.0	50.0		ug/L		100	70 - 125
1,2-Dichloroethane	<0.39		50.0	51.8		ug/L		104	70 - 125
1,1-Dichloroethene	<0.39		50.0	49.2		ug/L		98	70 - 125
1,2-Dichloropropane	<0.43		50.0	52.9		ug/L		106	70 - 125
1,3-Dichloropropane	<0.36		50.0	52.9		ug/L		106	70 - 125
2,2-Dichloropropane	<0.44		50.0	42.6		ug/L		85	62 - 125
1,1-Dichloropropene	<0.30		50.0	50.5		ug/L		101	70 - 125
Ethylbenzene	<0.18		50.0	54.2		ug/L		108	70 - 125
Hexachlorobutadiene	<0.45		50.0	55.5		ug/L		111	57 - 140
Isopropylbenzene	<0.39		50.0	54.1		ug/L		108	70 - 125
Methylene Chloride	<1.6		50.0	49.8		ug/L		100	68 - 125
Methyl tert-butyl ether	<0.39		50.0	41.3		ug/L		83	67 - 125
Naphthalene	<0.34		50.0	37.8		ug/L		76	50 - 136
n-Butylbenzene	<0.39		50.0	49.3		ug/L		99	70 - 125
N-Propylbenzene	<0.41		50.0	53.1		ug/L		106	70 - 125
p-Isopropyltoluene	<0.36		50.0	53.5		ug/L		107	70 - 125
sec-Butylbenzene	<0.40		50.0	52.9		ug/L		106	70 - 125
Styrene	<0.39		50.0	53.5		ug/L		107	70 - 125
tert-Butylbenzene	<0.40		50.0	52.2		ug/L		104	70 - 125
1,1,1,2-Tetrachloroethane	<0.46		50.0	54.3		ug/L		109	68 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	49.3		ug/L		99	68 - 125
Tetrachloroethene	<0.37		50.0	55.8		ug/L		112	70 - 125
Toluene	<0.15		50.0	51.7		ug/L		103	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	50.9		ug/L		102	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	48.0		ug/L		96	70 - 125
1,2,3-Trichlorobenzene	<0.46		50.0	41.7		ug/L		83	58 - 135
1,2,4-Trichlorobenzene	<0.34		50.0	43.4		ug/L		87	64 - 126
1,1,1-Trichloroethane	<0.38		50.0	50.7		ug/L		101	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	52.4		ug/L		105	70 - 125
Trichloroethene	<0.16		50.0	53.3		ug/L		107	70 - 125

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

Lab Sample ID: 500-123596-20 MS
Matrix: Water
Analysis Batch: 371514

Client Sample ID: GP-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	<0.43		50.0	47.8		ug/L		96	60 - 126
1,2,3-Trichloropropane	<0.41		50.0	44.5		ug/L		89	63 - 125
1,2,4-Trimethylbenzene	<0.36		50.0	52.4		ug/L		105	70 - 125
1,3,5-Trimethylbenzene	<0.25		50.0	52.2		ug/L		104	70 - 125
Vinyl chloride	<0.20		50.0	45.0		ug/L		90	70 - 126
Xylenes, Total	<0.22		100	103		ug/L		103	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*71 - 127*
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*
Dibromofluoromethane	*98*		*70 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: 500-123596-20 MSD
Matrix: Water
Analysis Batch: 371514

Client Sample ID: GP-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.15		50.0	50.6		ug/L		101	70 - 125	1	20
Bromobenzene	<0.36		50.0	56.1		ug/L		112	70 - 125	3	20
Bromochloromethane	<0.43		50.0	53.2		ug/L		106	70 - 125	1	20
Bromodichloromethane	<0.37		50.0	50.1		ug/L		100	70 - 125	1	20
Bromoform	<0.48		50.0	57.5		ug/L		115	54 - 128	2	20
Bromomethane	<0.80		50.0	43.2		ug/L		86	40 - 150	8	20
Carbon tetrachloride	<0.38		50.0	53.8		ug/L		108	70 - 125	0	20
Chlorobenzene	<0.39		50.0	54.7		ug/L		109	70 - 125	1	20
Chloroethane	<0.51		50.0	47.1		ug/L		94	60 - 139	1	20
Chloroform	<0.37		50.0	51.1		ug/L		102	70 - 125	1	20
Chloromethane	<0.32		50.0	50.0		ug/L		100	60 - 140	2	20
2-Chlorotoluene	<0.31		50.0	53.6		ug/L		107	69 - 125	2	20
4-Chlorotoluene	<0.35		50.0	51.5		ug/L		103	70 - 125	1	20
cis-1,2-Dichloroethene	<0.41		50.0	53.2		ug/L		106	70 - 125	2	20
cis-1,3-Dichloropropene	<0.42		50.0	50.2		ug/L		100	70 - 125	0	20
Dibromochloromethane	<0.49		50.0	54.8		ug/L		110	66 - 125	1	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	40.8		ug/L		82	51 - 125	1	20
1,2-Dibromoethane	<0.39		50.0	52.7		ug/L		105	70 - 125	0	20
Dibromomethane	<0.27		50.0	54.0		ug/L		108	70 - 125	2	20
1,2-Dichlorobenzene	<0.33		50.0	52.6		ug/L		105	70 - 125	1	20
1,3-Dichlorobenzene	<0.40		50.0	52.6		ug/L		105	70 - 125	0	20
1,4-Dichlorobenzene	<0.36		50.0	51.7		ug/L		103	70 - 125	1	20
Dichlorodifluoromethane	<0.67		50.0	29.3		ug/L		59	51 - 140	0	20
1,1-Dichloroethane	<0.41		50.0	50.6		ug/L		101	70 - 125	1	20
1,2-Dichloroethane	<0.39		50.0	52.0		ug/L		104	70 - 125	0	20
1,1-Dichloroethene	<0.39		50.0	50.2		ug/L		100	70 - 125	2	20
1,2-Dichloropropane	<0.43		50.0	53.5		ug/L		107	70 - 125	1	20
1,3-Dichloropropane	<0.36		50.0	53.7		ug/L		107	70 - 125	2	20
2,2-Dichloropropane	<0.44		50.0	43.7		ug/L		87	62 - 125	2	20
1,1-Dichloropropene	<0.30		50.0	50.6		ug/L		101	70 - 125	0	20

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

Lab Sample ID: 500-123596-20 MSD
Matrix: Water
Analysis Batch: 371514

Client Sample ID: GP-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.18		50.0	53.6		ug/L		107	70 - 125	1	20
Hexachlorobutadiene	<0.45		50.0	53.8		ug/L		108	57 - 140	3	20
Isopropylbenzene	<0.39		50.0	55.8		ug/L		112	70 - 125	3	20
Methylene Chloride	<1.6		50.0	50.2		ug/L		100	68 - 125	1	20
Methyl tert-butyl ether	<0.39		50.0	41.8		ug/L		84	67 - 125	1	20
Naphthalene	<0.34		50.0	40.0		ug/L		80	50 - 136	6	20
n-Butylbenzene	<0.39		50.0	46.9		ug/L		94	70 - 125	5	20
N-Propylbenzene	<0.41		50.0	53.3		ug/L		107	70 - 125	0	20
p-Isopropyltoluene	<0.36		50.0	54.9		ug/L		110	70 - 125	3	20
sec-Butylbenzene	<0.40		50.0	53.2		ug/L		106	70 - 125	1	20
Styrene	<0.39		50.0	53.5		ug/L		107	70 - 125	0	20
tert-Butylbenzene	<0.40		50.0	52.0		ug/L		104	70 - 125	1	20
1,1,1,2-Tetrachloroethane	<0.46		50.0	55.6		ug/L		111	68 - 125	2	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	49.7		ug/L		99	68 - 125	1	20
Tetrachloroethene	<0.37		50.0	56.3		ug/L		113	70 - 125	1	20
Toluene	<0.15		50.0	52.2		ug/L		104	70 - 125	1	20
trans-1,2-Dichloroethene	<0.35		50.0	50.9		ug/L		102	70 - 125	0	20
trans-1,3-Dichloropropene	<0.36		50.0	49.1		ug/L		98	70 - 125	2	20
1,2,3-Trichlorobenzene	<0.46		50.0	42.0		ug/L		84	58 - 135	1	20
1,2,4-Trichlorobenzene	<0.34		50.0	41.4		ug/L		83	64 - 126	5	20
1,1,1-Trichloroethane	<0.38		50.0	51.1		ug/L		102	70 - 125	1	20
1,1,2-Trichloroethane	<0.35		50.0	53.1		ug/L		106	70 - 125	1	20
Trichloroethene	<0.16		50.0	54.1		ug/L		108	70 - 125	2	20
Trichlorofluoromethane	<0.43		50.0	49.2		ug/L		98	60 - 126	3	20
1,2,3-Trichloropropane	<0.41		50.0	46.0		ug/L		92	63 - 125	3	20
1,2,4-Trimethylbenzene	<0.36		50.0	52.8		ug/L		106	70 - 125	1	20
1,3,5-Trimethylbenzene	<0.25		50.0	52.9		ug/L		106	70 - 125	1	20
Vinyl chloride	<0.20		50.0	45.4		ug/L		91	70 - 126	1	20
Xylenes, Total	<0.22		100	103		ug/L		103	70 - 125	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 127*
4-Bromofluorobenzene (Surr)	*96*		*71 - 120*
Dibromofluoromethane	*99*		*70 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: MB 500-371515/6
Matrix: Solid
Analysis Batch: 371515

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			02/10/17 10:03	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			02/10/17 10:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			02/10/17 10:03	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			02/10/17 10:03	1
Bromoform	<0.48		1.0	0.48	ug/Kg			02/10/17 10:03	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			02/10/17 10:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			02/10/17 10:03	1

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

Lab Sample ID: MB 500-371515/6
Matrix: Solid
Analysis Batch: 371515

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			02/10/17 10:03	1
Chloroform	<0.37		2.0	0.37	ug/Kg			02/10/17 10:03	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			02/10/17 10:03	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			02/10/17 10:03	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			02/10/17 10:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			02/10/17 10:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			02/10/17 10:03	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			02/10/17 10:03	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			02/10/17 10:03	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			02/10/17 10:03	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			02/10/17 10:03	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			02/10/17 10:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			02/10/17 10:03	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			02/10/17 10:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			02/10/17 10:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			02/10/17 10:03	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			02/10/17 10:03	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			02/10/17 10:03	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			02/10/17 10:03	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			02/10/17 10:03	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			02/10/17 10:03	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			02/10/17 10:03	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			02/10/17 10:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			02/10/17 10:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			02/10/17 10:03	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			02/10/17 10:03	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			02/10/17 10:03	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			02/10/17 10:03	1
Styrene	<0.39		1.0	0.39	ug/Kg			02/10/17 10:03	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			02/10/17 10:03	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			02/10/17 10:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			02/10/17 10:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			02/10/17 10:03	1
Toluene	<0.15		0.25	0.15	ug/Kg			02/10/17 10:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			02/10/17 10:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			02/10/17 10:03	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			02/10/17 10:03	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			02/10/17 10:03	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			02/10/17 10:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			02/10/17 10:03	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			02/10/17 10:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			02/10/17 10:03	1

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

Lab Sample ID: MB 500-371515/6
Matrix: Solid
Analysis Batch: 371515

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			02/10/17 10:03	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			02/10/17 10:03	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			02/10/17 10:03	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			02/10/17 10:03	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			02/10/17 10:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*71 - 127*		*02/10/17 10:03*	*1*
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*		*02/10/17 10:03*	*1*
Dibromofluoromethane	*101*		*70 - 120*		*02/10/17 10:03*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*02/10/17 10:03*	*1*

Lab Sample ID: LCS 500-371515/4
Matrix: Solid
Analysis Batch: 371515

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.6		ug/Kg		99	70 - 125
Bromobenzene	50.0	53.4		ug/Kg		107	70 - 125
Bromochloromethane	50.0	51.4		ug/Kg		103	70 - 125
Bromodichloromethane	50.0	48.0		ug/Kg		96	70 - 125
Bromoform	50.0	54.5		ug/Kg		109	54 - 128
Bromomethane	50.0	41.2		ug/Kg		82	40 - 150
Carbon tetrachloride	50.0	53.0		ug/Kg		106	70 - 125
Chlorobenzene	50.0	53.4		ug/Kg		107	70 - 125
Chloroethane	50.0	43.6		ug/Kg		87	60 - 139
Chloroform	50.0	48.9		ug/Kg		98	70 - 125
Chloromethane	50.0	46.8		ug/Kg		94	60 - 140
2-Chlorotoluene	50.0	53.0		ug/Kg		106	69 - 125
4-Chlorotoluene	50.0	52.3		ug/Kg		105	70 - 125
cis-1,2-Dichloroethene	50.0	51.5		ug/Kg		103	70 - 125
cis-1,3-Dichloropropene	50.0	49.8		ug/Kg		100	70 - 125
Dibromochloromethane	50.0	52.8		ug/Kg		106	66 - 125
1,2-Dibromo-3-Chloropropane	50.0	39.6		ug/Kg		79	51 - 125
1,2-Dibromoethane	50.0	51.1		ug/Kg		102	70 - 125
Dibromomethane	50.0	50.8		ug/Kg		102	70 - 125
1,2-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 125
1,3-Dichlorobenzene	50.0	53.5		ug/Kg		107	70 - 125
1,4-Dichlorobenzene	50.0	52.3		ug/Kg		105	70 - 125
Dichlorodifluoromethane	50.0	27.9		ug/Kg		56	51 - 140
1,1-Dichloroethane	50.0	49.8		ug/Kg		100	70 - 125
1,2-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 125
1,1-Dichloroethene	50.0	50.4		ug/Kg		101	70 - 125
1,2-Dichloropropane	50.0	51.7		ug/Kg		103	70 - 125
1,3-Dichloropropane	50.0	52.4		ug/Kg		105	70 - 125
2,2-Dichloropropane	50.0	44.7		ug/Kg		89	62 - 125
1,1-Dichloropropene	50.0	50.2		ug/Kg		100	70 - 125
Ethylbenzene	50.0	54.3		ug/Kg		109	70 - 125

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

Lab Sample ID: LCS 500-371515/4
Matrix: Solid
Analysis Batch: 371515

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	50.0	59.5		ug/Kg		119	57 - 140
Isopropylbenzene	50.0	55.2		ug/Kg		110	70 - 125
Methylene Chloride	50.0	48.8		ug/Kg		98	68 - 125
Methyl tert-butyl ether	50.0	40.4		ug/Kg		81	67 - 125
Naphthalene	50.0	37.5		ug/Kg		75	50 - 136
n-Butylbenzene	50.0	52.6		ug/Kg		105	70 - 125
N-Propylbenzene	50.0	54.9		ug/Kg		110	70 - 125
p-Isopropyltoluene	50.0	54.0		ug/Kg		108	70 - 125
sec-Butylbenzene	50.0	54.6		ug/Kg		109	70 - 125
Styrene	50.0	52.5		ug/Kg		105	70 - 125
tert-Butylbenzene	50.0	54.0		ug/Kg		108	70 - 125
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/Kg		106	68 - 125
1,1,2,2-Tetrachloroethane	50.0	48.1		ug/Kg		96	68 - 125
Tetrachloroethene	50.0	56.1		ug/Kg		112	70 - 125
Toluene	50.0	51.6		ug/Kg		103	70 - 125
trans-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	70 - 125
trans-1,3-Dichloropropene	50.0	48.9		ug/Kg		98	70 - 125
1,2,3-Trichlorobenzene	50.0	42.2		ug/Kg		84	58 - 135
1,2,4-Trichlorobenzene	50.0	44.4		ug/Kg		89	64 - 126
1,1,1-Trichloroethane	50.0	51.0		ug/Kg		102	70 - 125
1,1,2-Trichloroethane	50.0	51.3		ug/Kg		103	70 - 125
Trichloroethene	50.0	52.9		ug/Kg		106	70 - 125
Trichlorofluoromethane	50.0	45.3		ug/Kg		91	60 - 126
1,2,3-Trichloropropane	50.0	45.5		ug/Kg		91	63 - 125
1,2,4-Trimethylbenzene	50.0	53.1		ug/Kg		106	70 - 125
1,3,5-Trimethylbenzene	50.0	53.0		ug/Kg		106	70 - 125
Vinyl chloride	50.0	42.8		ug/Kg		86	70 - 126
Xylenes, Total	100	103		ug/Kg		103	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 127*
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*
Dibromofluoromethane	*96*		*70 - 120*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: MB 500-372077/6
Matrix: Water
Analysis Batch: 372077

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/15/17 10:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/15/17 10:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/15/17 10:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/15/17 10:49	1
Bromoform	<0.48		1.0	0.48	ug/L			02/15/17 10:49	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/15/17 10:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/15/17 10:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1

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

Lab Sample ID: MB 500-372077/6
Matrix: Water
Analysis Batch: 372077

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<0.51		1.0	0.51	ug/L			02/15/17 10:49	1
Chloroform	<0.37		2.0	0.37	ug/L			02/15/17 10:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/15/17 10:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/15/17 10:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/15/17 10:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/15/17 10:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/15/17 10:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/15/17 10:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/15/17 10:49	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/15/17 10:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/15/17 10:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/15/17 10:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/15/17 10:49	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/15/17 10:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/15/17 10:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/15/17 10:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/15/17 10:49	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/15/17 10:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/15/17 10:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/15/17 10:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/15/17 10:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/15/17 10:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/15/17 10:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/15/17 10:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/15/17 10:49	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/15/17 10:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/15/17 10:49	1
Styrene	<0.39		1.0	0.39	ug/L			02/15/17 10:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/15/17 10:49	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/15/17 10:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/15/17 10:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/15/17 10:49	1
Toluene	<0.15		0.50	0.15	ug/L			02/15/17 10:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/15/17 10:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/15/17 10:49	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/15/17 10:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/15/17 10:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/15/17 10:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/15/17 10:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/15/17 10:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/15/17 10:49	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/15/17 10:49	1

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

Lab Sample ID: MB 500-372077/6
Matrix: Water
Analysis Batch: 372077

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/15/17 10:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/15/17 10:49	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/15/17 10:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/15/17 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*71 - 127*		*02/15/17 10:49*	*1*
4-Bromofluorobenzene (Surr)	*100*		*71 - 120*		*02/15/17 10:49*	*1*
Dibromofluoromethane	*95*		*70 - 120*		*02/15/17 10:49*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*02/15/17 10:49*	*1*

Lab Sample ID: LCS 500-372077/4
Matrix: Water
Analysis Batch: 372077

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.2		ug/L		90	70 - 125
Bromobenzene	50.0	45.9		ug/L		92	70 - 125
Bromochloromethane	50.0	42.9		ug/L		86	70 - 125
Bromodichloromethane	50.0	44.8		ug/L		90	70 - 125
Bromoform	50.0	41.2		ug/L		82	54 - 128
Bromomethane	50.0	42.9		ug/L		86	40 - 150
Carbon tetrachloride	50.0	45.5		ug/L		91	70 - 125
Chlorobenzene	50.0	46.5		ug/L		93	70 - 125
Chloroethane	50.0	47.0		ug/L		94	60 - 139
Chloroform	50.0	46.4		ug/L		93	70 - 125
Chloromethane	50.0	41.8		ug/L		84	60 - 140
2-Chlorotoluene	50.0	47.5		ug/L		95	69 - 125
4-Chlorotoluene	50.0	47.9		ug/L		96	70 - 125
cis-1,2-Dichloroethene	50.0	43.7		ug/L		87	70 - 125
cis-1,3-Dichloropropene	50.0	46.7		ug/L		93	70 - 125
Dibromochloromethane	50.0	45.3		ug/L		91	66 - 125
1,2-Dibromo-3-Chloropropane	50.0	42.8		ug/L		86	51 - 125
1,2-Dibromoethane	50.0	47.9		ug/L		96	70 - 125
Dibromomethane	50.0	45.1		ug/L		90	70 - 125
1,2-Dichlorobenzene	50.0	46.5		ug/L		93	70 - 125
1,3-Dichlorobenzene	50.0	47.0		ug/L		94	70 - 125
1,4-Dichlorobenzene	50.0	46.6		ug/L		93	70 - 125
Dichlorodifluoromethane	50.0	31.6		ug/L		63	51 - 140
1,1-Dichloroethane	50.0	45.0		ug/L		90	70 - 125
1,2-Dichloroethane	50.0	47.4		ug/L		95	70 - 125
1,1-Dichloroethene	50.0	44.5		ug/L		89	70 - 125
1,2-Dichloropropane	50.0	46.2		ug/L		92	70 - 125
1,3-Dichloropropane	50.0	47.6		ug/L		95	70 - 125
2,2-Dichloropropane	50.0	44.8		ug/L		90	62 - 125
1,1-Dichloropropene	50.0	46.8		ug/L		94	70 - 125
Ethylbenzene	50.0	49.2		ug/L		98	70 - 125
Hexachlorobutadiene	50.0	45.3		ug/L		91	57 - 140

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

Lab Sample ID: LCS 500-372077/4
Matrix: Water
Analysis Batch: 372077

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	48.3		ug/L		97	70 - 125
Methylene Chloride	50.0	44.0		ug/L		88	68 - 125
Methyl tert-butyl ether	50.0	45.6		ug/L		91	67 - 125
Naphthalene	50.0	42.1		ug/L		84	50 - 136
n-Butylbenzene	50.0	49.5		ug/L		99	70 - 125
N-Propylbenzene	50.0	49.0		ug/L		98	70 - 125
p-Isopropyltoluene	50.0	48.8		ug/L		98	70 - 125
sec-Butylbenzene	50.0	48.9		ug/L		98	70 - 125
Styrene	50.0	47.0		ug/L		94	70 - 125
tert-Butylbenzene	50.0	48.2		ug/L		96	70 - 125
1,1,1,2-Tetrachloroethane	50.0	45.5		ug/L		91	68 - 125
1,1,2,2-Tetrachloroethane	50.0	46.8		ug/L		94	68 - 125
Tetrachloroethene	50.0	48.5		ug/L		97	70 - 125
Toluene	50.0	47.7		ug/L		95	70 - 125
trans-1,2-Dichloroethene	50.0	44.3		ug/L		89	70 - 125
trans-1,3-Dichloropropene	50.0	45.7		ug/L		91	70 - 125
1,2,3-Trichlorobenzene	50.0	41.5		ug/L		83	58 - 135
1,2,4-Trichlorobenzene	50.0	43.8		ug/L		88	64 - 126
1,1,1-Trichloroethane	50.0	46.8		ug/L		94	70 - 125
1,1,2-Trichloroethane	50.0	47.1		ug/L		94	70 - 125
Trichloroethene	50.0	45.4		ug/L		91	70 - 125
Trichlorofluoromethane	50.0	52.5		ug/L		105	60 - 126
1,2,3-Trichloropropane	50.0	44.2		ug/L		88	63 - 125
1,2,4-Trimethylbenzene	50.0	48.9		ug/L		98	70 - 125
1,3,5-Trimethylbenzene	50.0	48.8		ug/L		98	70 - 125
Vinyl chloride	50.0	47.1		ug/L		94	70 - 126
Xylenes, Total	100	95.8		ug/L		96	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*71 - 127*
4-Bromofluorobenzene (Surr)	*98*		*71 - 120*
Dibromofluoromethane	*94*		*70 - 120*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Chronicle

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-7 (0-2')
Date Collected: 02/06/17 08:50
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-7 (0-2')
Date Collected: 02/06/17 08:50
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-1
Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 08:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 12:40	TCT	TAL CHI

Client Sample ID: GP-7 (5-7.5')
Date Collected: 02/06/17 08:55
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-7 (5-7.5')
Date Collected: 02/06/17 08:55
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-2
Matrix: Solid
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 13:08	TCT	TAL CHI

Client Sample ID: GP-8 (2.5-5')
Date Collected: 02/06/17 09:40
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-8 (2.5-5')
Date Collected: 02/06/17 09:40
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-3
Matrix: Solid
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 09:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 13:36	TCT	TAL CHI

Lab Chronicle

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-8 (5-7.5') — **Lab Sample ID: 500-123596-4**
Date Collected: 02/06/17 09:45 — **Matrix: Solid**
Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-8 (5-7.5') — **Lab Sample ID: 500-123596-4**
Date Collected: 02/06/17 09:45 — **Matrix: Solid**
Date Received: 02/08/17 10:30 — **Percent Solids: 84.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 09:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 14:03	TCT	TAL CHI

Client Sample ID: GP-9 (2.5-5') — **Lab Sample ID: 500-123596-5**
Date Collected: 02/06/17 10:35 — **Matrix: Solid**
Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-9 (2.5-5') — **Lab Sample ID: 500-123596-5**
Date Collected: 02/06/17 10:35 — **Matrix: Solid**
Date Received: 02/08/17 10:30 — **Percent Solids: 82.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 10:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 14:31	TCT	TAL CHI

Client Sample ID: GP-9 (5-7.5') — **Lab Sample ID: 500-123596-6**
Date Collected: 02/06/17 10:40 — **Matrix: Solid**
Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-9 (5-7.5') — **Lab Sample ID: 500-123596-6**
Date Collected: 02/06/17 10:40 — **Matrix: Solid**
Date Received: 02/08/17 10:30 — **Percent Solids: 79.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 10:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 14:59	TCT	TAL CHI

Lab Chronicle

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-10 (2.5-5') — **Lab Sample ID: 500-123596-7**
Date Collected: 02/06/17 11:05 — **Matrix: Solid**
Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-10 (2.5-5') — **Lab Sample ID: 500-123596-7**
Date Collected: 02/06/17 11:05 — **Matrix: Solid**
Date Received: 02/08/17 10:30 — **Percent Solids: 88.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 11:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 15:27	TCT	TAL CHI

Client Sample ID: GP-10 (5-7.5') — **Lab Sample ID: 500-123596-8**
Date Collected: 02/06/17 11:10 — **Matrix: Solid**
Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-10 (5-7.5') — **Lab Sample ID: 500-123596-8**
Date Collected: 02/06/17 11:10 — **Matrix: Solid**
Date Received: 02/08/17 10:30 — **Percent Solids: 89.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 11:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 15:55	TCT	TAL CHI

Client Sample ID: GP-11 (0-2.5') — **Lab Sample ID: 500-123596-9**
Date Collected: 02/06/17 11:25 — **Matrix: Solid**
Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-11 (0-2.5') — **Lab Sample ID: 500-123596-9**
Date Collected: 02/06/17 11:25 — **Matrix: Solid**
Date Received: 02/08/17 10:30 — **Percent Solids: 86.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 11:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 16:23	TCT	TAL CHI

Lab Chronicle

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-11 (5-7.5') — **Lab Sample ID: 500-123596-10**
Date Collected: 02/06/17 11:30 — **Matrix: Solid**
Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: GP-11 (5-7.5') — **Lab Sample ID: 500-123596-10**
Date Collected: 02/06/17 11:30 — **Matrix: Solid**
Date Received: 02/08/17 10:30 — **Percent Solids: 88.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 11:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 16:50	TCT	TAL CHI

Client Sample ID: MW-1 (2.5-5') — **Lab Sample ID: 500-123596-11**
Date Collected: 02/06/17 10:00 — **Matrix: Solid**
Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: MW-1 (2.5-5') — **Lab Sample ID: 500-123596-11**
Date Collected: 02/06/17 10:00 — **Matrix: Solid**
Date Received: 02/08/17 10:30 — **Percent Solids: 90.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 10:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 17:18	TCT	TAL CHI

Client Sample ID: MW-1 (5-7.5') — **Lab Sample ID: 500-123596-12**
Date Collected: 02/06/17 10:05 — **Matrix: Solid**
Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: MW-1 (5-7.5') — **Lab Sample ID: 500-123596-12**
Date Collected: 02/06/17 10:05 — **Matrix: Solid**
Date Received: 02/08/17 10:30 — **Percent Solids: 85.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 10:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 17:46	TCT	TAL CHI

Lab Chronicle

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-2 (2.5-5') — **Lab Sample ID: 500-123596-13**
Date Collected: 02/06/17 11:55 — **Matrix: Solid**
Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: MW-2 (2.5-5') — **Lab Sample ID: 500-123596-13**
Date Collected: 02/06/17 11:55 — **Matrix: Solid**
Date Received: 02/08/17 10:30 — **Percent Solids: 88.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 11:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 18:14	TCT	TAL CHI

Client Sample ID: MW-2 (5-7.5') — **Lab Sample ID: 500-123596-14**
Date Collected: 02/06/17 12:00 — **Matrix: Solid**
Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: MW-2 (5-7.5') — **Lab Sample ID: 500-123596-14**
Date Collected: 02/06/17 12:00 — **Matrix: Solid**
Date Received: 02/08/17 10:30 — **Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 18:42	TCT	TAL CHI

Client Sample ID: MW-3 (0-2.5') — **Lab Sample ID: 500-123596-15**
Date Collected: 02/06/17 13:50 — **Matrix: Solid**
Date Received: 02/08/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: MW-3 (0-2.5') — **Lab Sample ID: 500-123596-15**
Date Collected: 02/06/17 13:50 — **Matrix: Solid**
Date Received: 02/08/17 10:30 — **Percent Solids: 79.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371372	02/09/17 19:10	TCT	TAL CHI

Lab Chronicle

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: MW-3 (5-7.5')
Date Collected: 02/06/17 13:55
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	371426	02/09/17 11:46	LWN	TAL CHI

Client Sample ID: MW-3 (5-7.5')
Date Collected: 02/06/17 13:55
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-16
Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			371336	02/06/17 13:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	371515	02/10/17 16:06	TCT	TAL CHI

Client Sample ID: Trip Blank
Date Collected: 02/06/17 00:00
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371514	02/10/17 16:34	TCT	TAL CHI

Client Sample ID: GP-7
Date Collected: 02/06/17 10:10
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371514	02/10/17 17:02	TCT	TAL CHI

Client Sample ID: GP-8
Date Collected: 02/06/17 10:15
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371514	02/10/17 17:30	TCT	TAL CHI

Client Sample ID: GP-9
Date Collected: 02/06/17 12:55
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371514	02/10/17 17:58	TCT	TAL CHI

Lab Chronicle

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Client Sample ID: GP-10

Date Collected: 02/06/17 12:40
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	372077	02/15/17 13:57	PMF	TAL CHI

Client Sample ID: GP-11

Date Collected: 02/06/17 12:45
Date Received: 02/08/17 10:30

Lab Sample ID: 500-123596-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	372077	02/15/17 14:24	PMF	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners - 25216186

TestAmerica Job ID: 500-123596-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

Analysis Method	Prep Method	Matrix	Analyte

TestAmerica

THE LEADER IN ENVIRONMENTA

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.5

500-123596 COC

Chain of Custody Record

Lab Job #: 500-123596

Chain of Custody Number:

Page _____ of _____

Temperature °C of Cooler: 0,8

Report To (optional)	Bill To (optional)
Contact: Robert Langdon	Contact:
Company: SCS Engineers	Company:
Address: 2830 Dairy Dr.	Address:
Address: Madison, WI 53718	Address:
Phone: 608-216-7329	Phone:
Fax:	Fax:
E-Mail: rlangdon@scsengineers.com	PO#/Reference#

Client	Client Project #
SCS Engineers	25216186
Project Name	
Arctic Laundry & Cleaners	
Project Location/State	Lab Project #
Kenosha, WI	
Sampler	Lab PM
Jaclyn DeBruyne	Sadie Fredrick

Preservative: MeOH 8

Parameter: VOCs (8260B) | Dry weight

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs (8260B)	Dry weight	Comments
1		GP-7 (0-2')	2-6	850	2	S	X	X	
2		GP-7 (5-7.5')	2-6	855	2	S	X	X	
3		GP-8 (2.5-5')	2-6	940	2	S	X	X	
4		GP-8 (5-7.5')	2-6	945	2	S	X	X	
5		GP-9 (2.5-5')	2-6	1035	2	S	X	X	
6		GP-9 (5-7.5')	2-6	1040	2	S	X	X	
7		GP-10 (2.5-5')	2-6	1105	2	S	X	X	
8		GP-10 (5-7.5')	2-6	1110	2	S	X	X	
9		GP-11 (0-2.5')	2-6	1125	2	S	X	X	
10		GP-11 (5-7.5')	2-6	1130	2	S	X	X	

Turnaround Time Required (Business Days) Standard

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other

Requested Due Date _____

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	SCS Engineers	2-7-17	1630			2/8/17	1030
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier ☐

Shipped Fedex

Hand Delivered ☐

Matrix Key

WW – Wastewater	SE – Sediment
W – Water	SO – Soil
S – Soil	L – Leachate
SL – Sludge	WI – Wipe
MS – Miscellaneous	DW – Drinking Water
OL – Oil	O – Other
A – Air	

Client Comments

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-123596

Chain of Custody Number:

Page _____ of _____

Temperature °C of Cooler:

Report To (optional)	Bill To (optional)
Contact: Robert Langdon	Contact:
Company: SCS Engineers	Company:
Address: 2830 Dairy Drive	Address:
Address: Madison, WI 53718	Address:
Phone: 608-216-7329	Phone:
Fax:	Fax:
E-Mail: rlangdon@scsengineers.com	PO#/Reference#

Client	Client Project #
SCS Engineers	25216184
Project Name	
Arctic laundry and Cleaners	
Project Location/State	Lab Project #
Kenosha, WI	
Sampler	Lab PM
Jaclyn DeBruyne	Sandie Frederick

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOCs (8260B)	Parameter: Dry Weight							Comments
							MeOH	8								
11		mw-1 (2.5-5')	2-6	1000	2	S		x	x							
12		mw-1 (5-7.5')	2-6	1005	2	S		x	x							
13		mw-2 (2.5-5')	2-6	1155	2	S		x	x							
14		mw-2 (5-7.5')	2-6	1200	2	S		x	x							
15		mw-3 (0-2.5')	2-6	1350	2	S		x	x							
16		mw-3 (5-7.5')	2-6	1355	2	S		x	x							
17		Trip blank	2-6		1	O		x								

Turnaround Time Required (Business Days): Standard

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other

Requested Due Date _____

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	SCS Engineers	2-7-17	1630	[signature]	TA-CHI	2/8/17	1030
[signature]	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: ☐

Shipped: Fed-X

Hand Delivered: ☐

Matrix Key

WW – Wastewater	SE – Sediment
W – Water	SO – Soil
S – Soil	L – Leachate
SL – Sludge	WI – Wipe
MS – Miscellaneous	DW – Drinking Water
OL – Oil	O – Other
A – Air	

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-123596

Chain of Custody Number:

Page _____ of _____

Temperature °C of Cooler:

(optional) Report To		(optional) Bill To	
Contact:	Robert Langdon	Contact:	
Company:	SCS Engineers	Company:	
Address:	2830 Dairy Drive	Address:	
Address:	Madison, WI 53718	Address:	
Phone:	608-216-7329	Phone:	
Fax:		Fax:	
E-Mail:	rlangdon@scsengineers.com	PO#/Reference#	

Client	Client Project #	Lab Project #
SCS Engineers	25216186	

Project Name: Arctic laundry and Cleaners

Project Location/State: Kenosha, WI

Sampler: Jaclyn DeBruyne

Lab PM: Sandie Fredrick

Preservative: 1

Parameter: VOCs (8260B)

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs (8260B)	Comments
18		GP-7	2-6	1010	3	W	X	
19		GP-8	2-6	1015	3	W	X	
20		GP-9	2-6	1255	3	W	X	Rec I broken
21		GP-10	2-6	1240	3	W	X	
22		GP-11	2-6	1245	3	W	X	

Turnaround Time Required (Business Days): Standard

___1-Day ___2 Days ___5 Days ___7 Days ___10 Days ___15 Days _____Other

Requested Due Date: _____

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	SCS Engineers	2-7-17	1630		TA-CRT	2/8/17	1030
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:

Shipped: Fed X

Hand Delivered:

Matrix Key

WW – Wastewater	SE – Sediment
W – Water	SO – Soil
S – Soil	L – Leachate
SL – Sludge	WI – Wipe
MS – Miscellaneous	DW – Drinking Water
OL – Oil	O – Other
A – Air	

Client Comments:

Lab Comments:

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-123596-1

Login Number: 123596
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers recd broken. Sufficient sample in remaining containers for analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-124176-1
Client Project/Site: 5619 22nd Ave. Kenosha 25216186

For:
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

Attn: Mr. Robert Langdon

Sandie Fredrick

Authorized for release by:
3/3/2017 4:51:30 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Case Narrative

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Job ID: 500-124176-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-124176-1

Comments
No additional comments.

Receipt
The samples were received on 2/22/2017 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5º C.

GC/MS VOA
Method(s) 8260B: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). The pH however, was outside the required criteria when verified by the laboratory: MW-1 (500-124176-1), MW-2 (500-124176-2), MW-2-FD (500-124176-3) and MW-3 (500-124176-4). The sample was analyzed within 7 days per EPA recommendation, therefore no further corrective action was needed.

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

Detection Summary

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: MW-1 — Lab Sample ID: 500-124176-1

No Detections.

Client Sample ID: MW-2 — Lab Sample ID: 500-124176-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloropropane	1.3		1.0	0.43	ug/L	1		8260B	Total/NA

Client Sample ID: MW-2-FD — Lab Sample ID: 500-124176-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloropropane	1.2		1.0	0.43	ug/L	1		8260B	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 500-124176-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.5		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-124176-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-124176-1	MW-1	Water	02/21/17 11:35	02/22/17 10:30
500-124176-2	MW-2	Water	02/21/17 11:45	02/22/17 10:30
500-124176-3	MW-2-FD	Water	02/21/17 11:50	02/22/17 10:30
500-124176-4	MW-3	Water	02/21/17 12:00	02/22/17 10:30
500-124176-5	Trip Blank	Water	02/21/17 00:00	02/22/17 10:30

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: MW-1
Date Collected: 02/21/17 11:35
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/28/17 16:15	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/28/17 16:15	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/28/17 16:15	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/28/17 16:15	1
Bromoform	<0.48		1.0	0.48	ug/L			02/28/17 16:15	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/28/17 16:15	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/28/17 16:15	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/28/17 16:15	1
Chloroform	<0.37		2.0	0.37	ug/L			02/28/17 16:15	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/28/17 16:15	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/28/17 16:15	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/28/17 16:15	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/28/17 16:15	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/28/17 16:15	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/28/17 16:15	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/28/17 16:15	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/28/17 16:15	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/28/17 16:15	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/28/17 16:15	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/28/17 16:15	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/28/17 16:15	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/28/17 16:15	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/28/17 16:15	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/28/17 16:15	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/28/17 16:15	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/28/17 16:15	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/28/17 16:15	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/28/17 16:15	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/28/17 16:15	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/28/17 16:15	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/28/17 16:15	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/28/17 16:15	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/28/17 16:15	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 16:15	1
Styrene	<0.39		1.0	0.39	ug/L			02/28/17 16:15	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 16:15	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/28/17 16:15	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/28/17 16:15	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/28/17 16:15	1
Toluene	<0.15		0.50	0.15	ug/L			02/28/17 16:15	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/28/17 16:15	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/28/17 16:15	1

Client Sample ID: MW-1

Lab Sample ID: 500-124176-1

Date Collected: 02/21/17 11:35

Matrix: Water

Date Received: 02/22/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/28/17 16:15	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/28/17 16:15	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/28/17 16:15	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/28/17 16:15	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/28/17 16:15	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/28/17 16:15	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/28/17 16:15	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/28/17 16:15	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/28/17 16:15	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/28/17 16:15	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/28/17 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 120*		*02/28/17 16:15*	*1*
Dibromofluoromethane	*95*		*70 - 120*		*02/28/17 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*71 - 127*		*02/28/17 16:15*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*02/28/17 16:15*	*1*

Client Sample ID: MW-2

Lab Sample ID: 500-124176-2

Date Collected: 02/21/17 11:45

Matrix: Water

Date Received: 02/22/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/28/17 16:40	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/28/17 16:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/28/17 16:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/28/17 16:40	1
Bromoform	<0.48		1.0	0.48	ug/L			02/28/17 16:40	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/28/17 16:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/28/17 16:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/28/17 16:40	1
Chloroform	<0.37		2.0	0.37	ug/L			02/28/17 16:40	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/28/17 16:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/28/17 16:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/28/17 16:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/28/17 16:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/28/17 16:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/28/17 16:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/28/17 16:40	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/28/17 16:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/28/17 16:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/28/17 16:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/28/17 16:40	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/28/17 16:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/28/17 16:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1

Client Sample ID: MW-2

Date Collected: 02/21/17 11:45
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.3		1.0	0.43	ug/L			02/28/17 16:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/28/17 16:40	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/28/17 16:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/28/17 16:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/28/17 16:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/28/17 16:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/28/17 16:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/28/17 16:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/28/17 16:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/28/17 16:40	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/28/17 16:40	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 16:40	1
Styrene	<0.39		1.0	0.39	ug/L			02/28/17 16:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 16:40	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/28/17 16:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/28/17 16:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/28/17 16:40	1
Toluene	<0.15		0.50	0.15	ug/L			02/28/17 16:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/28/17 16:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/28/17 16:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/28/17 16:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/28/17 16:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/28/17 16:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/28/17 16:40	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/28/17 16:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/28/17 16:40	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/28/17 16:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/28/17 16:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/28/17 16:40	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/28/17 16:40	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/28/17 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*71 - 120*		*02/28/17 16:40*	*1*
Dibromofluoromethane	*97*		*70 - 120*		*02/28/17 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*71 - 127*		*02/28/17 16:40*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*02/28/17 16:40*	*1*

Client Sample ID: MW-2-FD

Date Collected: 02/21/17 11:50
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/28/17 17:05	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/28/17 17:05	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/28/17 17:05	1

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: MW-2-FD
Date Collected: 02/21/17 11:50
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/28/17 17:05	1
Bromoform	<0.48		1.0	0.48	ug/L			02/28/17 17:05	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/28/17 17:05	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/28/17 17:05	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/28/17 17:05	1
Chloroform	<0.37		2.0	0.37	ug/L			02/28/17 17:05	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/28/17 17:05	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/28/17 17:05	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/28/17 17:05	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/28/17 17:05	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/28/17 17:05	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/28/17 17:05	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/28/17 17:05	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/28/17 17:05	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/28/17 17:05	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/28/17 17:05	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/28/17 17:05	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/28/17 17:05	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/28/17 17:05	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
1,2-Dichloropropane	**1.2**		1.0	0.43	ug/L			02/28/17 17:05	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/28/17 17:05	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/28/17 17:05	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/28/17 17:05	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/28/17 17:05	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/28/17 17:05	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/28/17 17:05	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/28/17 17:05	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/28/17 17:05	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/28/17 17:05	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/28/17 17:05	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 17:05	1
Styrene	<0.39		1.0	0.39	ug/L			02/28/17 17:05	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 17:05	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/28/17 17:05	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/28/17 17:05	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/28/17 17:05	1
Toluene	<0.15		0.50	0.15	ug/L			02/28/17 17:05	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/28/17 17:05	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/28/17 17:05	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/28/17 17:05	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/28/17 17:05	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/28/17 17:05	1

Client Sample ID: MW-2-FD

Lab Sample ID: 500-124176-3

Date Collected: 02/21/17 11:50

Matrix: Water

Date Received: 02/22/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/28/17 17:05	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/28/17 17:05	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/28/17 17:05	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/28/17 17:05	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/28/17 17:05	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/28/17 17:05	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/28/17 17:05	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/28/17 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*71 - 120*		*02/28/17 17:05*	*1*
Dibromofluoromethane	*95*		*70 - 120*		*02/28/17 17:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*71 - 127*		*02/28/17 17:05*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*02/28/17 17:05*	*1*

Client Sample ID: MW-3

Lab Sample ID: 500-124176-4

Date Collected: 02/21/17 12:00

Matrix: Water

Date Received: 02/22/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/28/17 17:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/28/17 17:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/28/17 17:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/28/17 17:30	1
Bromoform	<0.48		1.0	0.48	ug/L			02/28/17 17:30	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/28/17 17:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/28/17 17:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/28/17 17:30	1
Chloroform	<0.37		2.0	0.37	ug/L			02/28/17 17:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/28/17 17:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/28/17 17:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/28/17 17:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/28/17 17:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/28/17 17:30	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/28/17 17:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/28/17 17:30	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/28/17 17:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/28/17 17:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/28/17 17:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/28/17 17:30	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/28/17 17:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/28/17 17:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/28/17 17:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/28/17 17:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/28/17 17:30	1

Client Sample ID: MW-3
Date Collected: 02/21/17 12:00
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/28/17 17:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/28/17 17:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/28/17 17:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/28/17 17:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/28/17 17:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/28/17 17:30	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/28/17 17:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/28/17 17:30	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 17:30	1
Styrene	<0.39		1.0	0.39	ug/L			02/28/17 17:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 17:30	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/28/17 17:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/28/17 17:30	1
Tetrachloroethene	**1.5**		1.0	0.37	ug/L			02/28/17 17:30	1
Toluene	<0.15		0.50	0.15	ug/L			02/28/17 17:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/28/17 17:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/28/17 17:30	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/28/17 17:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/28/17 17:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/28/17 17:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/28/17 17:30	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/28/17 17:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/28/17 17:30	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/28/17 17:30	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/28/17 17:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/28/17 17:30	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/28/17 17:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/28/17 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*71 - 120*		*02/28/17 17:30*	*1*
Dibromofluoromethane	*96*		*70 - 120*		*02/28/17 17:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*71 - 127*		*02/28/17 17:30*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*02/28/17 17:30*	*1*

Client Sample ID: Trip Blank
Date Collected: 02/21/17 00:00
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			03/01/17 14:51	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/01/17 14:51	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/01/17 14:51	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/01/17 14:51	1
Bromoform	<0.48		1.0	0.48	ug/L			03/01/17 14:51	1
Bromomethane	<0.80		2.0	0.80	ug/L			03/01/17 14:51	1

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: Trip Blank
Date Collected: 02/21/17 00:00
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/01/17 14:51	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/01/17 14:51	1
Chloroform	<0.37		2.0	0.37	ug/L			03/01/17 14:51	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/01/17 14:51	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/01/17 14:51	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/01/17 14:51	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/01/17 14:51	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/01/17 14:51	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/01/17 14:51	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/01/17 14:51	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/01/17 14:51	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/01/17 14:51	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/01/17 14:51	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/01/17 14:51	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			03/01/17 14:51	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/01/17 14:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/01/17 14:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/01/17 14:51	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/01/17 14:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/01/17 14:51	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/01/17 14:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/01/17 14:51	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/01/17 14:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/01/17 14:51	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/01/17 14:51	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/01/17 14:51	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/01/17 14:51	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/01/17 14:51	1
Styrene	<0.39		1.0	0.39	ug/L			03/01/17 14:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/01/17 14:51	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/01/17 14:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/01/17 14:51	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/01/17 14:51	1
Toluene	<0.15		0.50	0.15	ug/L			03/01/17 14:51	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/01/17 14:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/01/17 14:51	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/01/17 14:51	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/01/17 14:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/01/17 14:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/01/17 14:51	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/01/17 14:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/01/17 14:51	1

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: Trip Blank
Date Collected: 02/21/17 00:00
Date Received: 02/22/17 10:30

Lab Sample ID: 500-124176-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			03/01/17 14:51	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/01/17 14:51	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/01/17 14:51	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			03/01/17 14:51	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/01/17 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*71 - 120*		*03/01/17 14:51*	*1*
Dibromofluoromethane	*95*		*70 - 120*		*03/01/17 14:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*71 - 127*		*03/01/17 14:51*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*03/01/17 14:51*	*1*

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

GC/MS VOA

Analysis Batch: 373770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-124176-1	MW-1	Total/NA	Water	8260B	
500-124176-2	MW-2	Total/NA	Water	8260B	
500-124176-3	MW-2-FD	Total/NA	Water	8260B	
500-124176-4	MW-3	Total/NA	Water	8260B	
MB 500-373770/6	Method Blank	Total/NA	Water	8260B	
LCS 500-373770/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 373942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-124176-5	Trip Blank	Total/NA	Water	8260B	
MB 500-373942/6	Method Blank	Total/NA	Water	8260B	
LCS 500-373942/15	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(71-120)	(70-120)	(71-127)	(75-120)
500-124176-1	MW-1	100	95	113	96
500-124176-2	MW-2	99	97	111	96
500-124176-3	MW-2-FD	99	95	116	96
500-124176-4	MW-3	98	96	111	96
500-124176-5	Trip Blank	90	95	101	104
LCS 500-373770/4	Lab Control Sample	92	98	101	100
LCS 500-373942/15	Lab Control Sample	88	96	101	107
MB 500-373770/6	Method Blank	99	96	110	97
MB 500-373942/6	Method Blank	84	97	91	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-373770/6
Matrix: Water
Analysis Batch: 373770

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/28/17 09:57	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/28/17 09:57	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/28/17 09:57	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/28/17 09:57	1
Bromoform	<0.48		1.0	0.48	ug/L			02/28/17 09:57	1
Bromomethane	<0.80		2.0	0.80	ug/L			02/28/17 09:57	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/28/17 09:57	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/28/17 09:57	1
Chloroform	<0.37		2.0	0.37	ug/L			02/28/17 09:57	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/28/17 09:57	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/28/17 09:57	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/28/17 09:57	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/28/17 09:57	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/28/17 09:57	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/28/17 09:57	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/28/17 09:57	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/28/17 09:57	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/28/17 09:57	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/28/17 09:57	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/28/17 09:57	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			02/28/17 09:57	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/28/17 09:57	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/28/17 09:57	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/28/17 09:57	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/28/17 09:57	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/28/17 09:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/28/17 09:57	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/28/17 09:57	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/28/17 09:57	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/28/17 09:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/28/17 09:57	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/28/17 09:57	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/28/17 09:57	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 09:57	1
Styrene	<0.39		1.0	0.39	ug/L			02/28/17 09:57	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/28/17 09:57	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/28/17 09:57	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/28/17 09:57	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/28/17 09:57	1
Toluene	<0.15		0.50	0.15	ug/L			02/28/17 09:57	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/28/17 09:57	1

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

Lab Sample ID: MB 500-373770/6
Matrix: Water
Analysis Batch: 373770

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/28/17 09:57	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/28/17 09:57	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/28/17 09:57	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/28/17 09:57	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/28/17 09:57	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/28/17 09:57	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/28/17 09:57	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			02/28/17 09:57	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/28/17 09:57	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/28/17 09:57	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/28/17 09:57	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/28/17 09:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*71 - 120*		*02/28/17 09:57*	*1*
Dibromofluoromethane	*96*		*70 - 120*		*02/28/17 09:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*71 - 127*		*02/28/17 09:57*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*02/28/17 09:57*	*1*

Lab Sample ID: LCS 500-373770/4
Matrix: Water
Analysis Batch: 373770

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	42.4		ug/L		85	70 - 125
Bromobenzene	50.0	41.4		ug/L		83	70 - 125
Bromochloromethane	50.0	43.0		ug/L		86	70 - 125
Bromodichloromethane	50.0	40.6		ug/L		81	70 - 125
Bromoform	50.0	38.7		ug/L		77	54 - 128
Bromomethane	50.0	55.4		ug/L		111	40 - 150
Carbon tetrachloride	50.0	46.4		ug/L		93	70 - 125
Chlorobenzene	50.0	44.6		ug/L		89	70 - 125
Chloroethane	50.0	47.7		ug/L		95	60 - 139
Chloroform	50.0	43.2		ug/L		86	70 - 125
Chloromethane	50.0	44.2		ug/L		88	60 - 140
2-Chlorotoluene	50.0	41.9		ug/L		84	69 - 125
4-Chlorotoluene	50.0	42.6		ug/L		85	70 - 125
cis-1,2-Dichloroethene	50.0	42.0		ug/L		84	70 - 125
cis-1,3-Dichloropropene	50.0	42.2		ug/L		84	70 - 125
Dibromochloromethane	50.0	41.2		ug/L		82	66 - 125
1,2-Dibromo-3-Chloropropane	50.0	35.9		ug/L		72	51 - 125
1,2-Dibromoethane	50.0	41.3		ug/L		83	70 - 125
Dibromomethane	50.0	41.8		ug/L		84	70 - 125
1,2-Dichlorobenzene	50.0	43.4		ug/L		87	70 - 125
1,3-Dichlorobenzene	50.0	43.5		ug/L		87	70 - 125
1,4-Dichlorobenzene	50.0	43.3		ug/L		87	70 - 125
Dichlorodifluoromethane	50.0	41.1		ug/L		82	51 - 140
1,1-Dichloroethane	50.0	43.8		ug/L		88	70 - 125

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

Lab Sample ID: LCS 500-373770/4
Matrix: Water
Analysis Batch: 373770

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	45.2		ug/L		90	70 - 125
1,1-Dichloroethene	50.0	42.7		ug/L		85	70 - 125
1,2-Dichloropropane	50.0	42.5		ug/L		85	70 - 125
1,3-Dichloropropane	50.0	41.3		ug/L		83	70 - 125
2,2-Dichloropropane	50.0	46.0		ug/L		92	62 - 125
1,1-Dichloropropene	50.0	45.0		ug/L		90	70 - 125
Ethylbenzene	50.0	44.9		ug/L		90	70 - 125
Hexachlorobutadiene	50.0	50.5		ug/L		101	57 - 140
Isopropylbenzene	50.0	42.9		ug/L		86	70 - 125
Methylene Chloride	50.0	41.7		ug/L		83	68 - 125
Methyl tert-butyl ether	50.0	40.6		ug/L		81	67 - 125
Naphthalene	50.0	48.2		ug/L		96	50 - 136
n-Butylbenzene	50.0	46.2		ug/L		92	70 - 125
N-Propylbenzene	50.0	43.7		ug/L		87	70 - 125
p-Isopropyltoluene	50.0	45.5		ug/L		91	70 - 125
sec-Butylbenzene	50.0	44.8		ug/L		90	70 - 125
Styrene	50.0	44.3		ug/L		89	70 - 125
tert-Butylbenzene	50.0	44.5		ug/L		89	70 - 125
1,1,1,2-Tetrachloroethane	50.0	44.7		ug/L		89	68 - 125
1,1,2,2-Tetrachloroethane	50.0	39.6		ug/L		79	68 - 125
Tetrachloroethene	50.0	46.3		ug/L		93	70 - 125
Toluene	50.0	44.8		ug/L		90	70 - 125
trans-1,2-Dichloroethene	50.0	42.2		ug/L		84	70 - 125
trans-1,3-Dichloropropene	50.0	40.6		ug/L		81	70 - 125
1,2,3-Trichlorobenzene	50.0	49.0		ug/L		98	58 - 135
1,2,4-Trichlorobenzene	50.0	48.9		ug/L		98	64 - 126
1,1,1-Trichloroethane	50.0	45.1		ug/L		90	70 - 125
1,1,2-Trichloroethane	50.0	41.7		ug/L		83	70 - 125
Trichloroethene	50.0	46.0		ug/L		92	70 - 125
Trichlorofluoromethane	50.0	49.5		ug/L		99	60 - 126
1,2,3-Trichloropropane	50.0	37.9		ug/L		76	63 - 125
1,2,4-Trimethylbenzene	50.0	43.4		ug/L		87	70 - 125
1,3,5-Trimethylbenzene	50.0	43.8		ug/L		88	70 - 125
Vinyl chloride	50.0	49.6		ug/L		99	70 - 126
Xylenes, Total	100	89.4		ug/L		89	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*71 - 120*
Dibromofluoromethane	*98*		*70 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*71 - 127*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: MB 500-373942/6
Matrix: Water
Analysis Batch: 373942

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			03/01/17 10:26	1

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

Lab Sample ID: MB 500-373942/6
Matrix: Water
Analysis Batch: 373942

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.36		1.0	0.36	ug/L			03/01/17 10:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/01/17 10:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/01/17 10:26	1
Bromoform	<0.48		1.0	0.48	ug/L			03/01/17 10:26	1
Bromomethane	<0.80		2.0	0.80	ug/L			03/01/17 10:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/01/17 10:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/01/17 10:26	1
Chloroform	<0.37		2.0	0.37	ug/L			03/01/17 10:26	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/01/17 10:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/01/17 10:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/01/17 10:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/01/17 10:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/01/17 10:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/01/17 10:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/01/17 10:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/01/17 10:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/01/17 10:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/01/17 10:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/01/17 10:26	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			03/01/17 10:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/01/17 10:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/01/17 10:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/01/17 10:26	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/01/17 10:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/01/17 10:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/01/17 10:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/01/17 10:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/01/17 10:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/01/17 10:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/01/17 10:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/01/17 10:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/01/17 10:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/01/17 10:26	1
Styrene	<0.39		1.0	0.39	ug/L			03/01/17 10:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/01/17 10:26	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/01/17 10:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/01/17 10:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/01/17 10:26	1
Toluene	<0.15		0.50	0.15	ug/L			03/01/17 10:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/01/17 10:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/01/17 10:26	1

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

Lab Sample ID: MB 500-373942/6
Matrix: Water
Analysis Batch: 373942

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/01/17 10:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/01/17 10:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/01/17 10:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/01/17 10:26	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/01/17 10:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/01/17 10:26	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			03/01/17 10:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/01/17 10:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/01/17 10:26	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			03/01/17 10:26	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/01/17 10:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*71 - 120*		*03/01/17 10:26*	*1*
Dibromofluoromethane	*97*		*70 - 120*		*03/01/17 10:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*71 - 127*		*03/01/17 10:26*	*1*
Toluene-d8 (Surr)	*87*		*75 - 120*		*03/01/17 10:26*	*1*

Lab Sample ID: LCS 500-373942/15
Matrix: Water
Analysis Batch: 373942

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	44.9		ug/L		90	70 - 125
Bromobenzene	50.0	47.7		ug/L		95	70 - 125
Bromochloromethane	50.0	46.6		ug/L		93	70 - 125
Bromodichloromethane	50.0	44.2		ug/L		88	70 - 125
Bromoform	50.0	53.8		ug/L		108	54 - 128
Bromomethane	50.0	37.1		ug/L		74	40 - 150
Carbon tetrachloride	50.0	45.4		ug/L		91	70 - 125
Chlorobenzene	50.0	46.6		ug/L		93	70 - 125
Chloroethane	50.0	33.6		ug/L		67	60 - 139
Chloroform	50.0	37.1		ug/L		74	70 - 125
Chloromethane	50.0	38.8		ug/L		78	60 - 140
2-Chlorotoluene	50.0	46.3		ug/L		93	69 - 125
4-Chlorotoluene	50.0	45.4		ug/L		91	70 - 125
cis-1,2-Dichloroethene	50.0	39.6		ug/L		79	70 - 125
cis-1,3-Dichloropropene	50.0	46.9		ug/L		94	70 - 125
Dibromochloromethane	50.0	48.3		ug/L		97	66 - 125
1,2-Dibromo-3-Chloropropane	50.0	34.9		ug/L		70	51 - 125
1,2-Dibromoethane	50.0	44.1		ug/L		88	70 - 125
Dibromomethane	50.0	44.5		ug/L		89	70 - 125
1,2-Dichlorobenzene	50.0	45.9		ug/L		92	70 - 125
1,3-Dichlorobenzene	50.0	46.5		ug/L		93	70 - 125
1,4-Dichlorobenzene	50.0	46.5		ug/L		93	70 - 125
Dichlorodifluoromethane	50.0	28.9		ug/L		58	51 - 140
1,1-Dichloroethane	50.0	48.8		ug/L		98	70 - 125
1,2-Dichloroethane	50.0	48.9		ug/L		98	70 - 125

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

Lab Sample ID: LCS 500-373942/15
Matrix: Water
Analysis Batch: 373942

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	50.0	40.1		ug/L		80	70 - 125
1,2-Dichloropropane	50.0	45.3		ug/L		91	70 - 125
1,3-Dichloropropane	50.0	41.1		ug/L		82	70 - 125
2,2-Dichloropropane	50.0	32.2		ug/L		64	62 - 125
1,1-Dichloropropene	50.0	41.4		ug/L		83	70 - 125
Ethylbenzene	50.0	44.7		ug/L		89	70 - 125
Hexachlorobutadiene	50.0	45.1		ug/L		90	57 - 140
Isopropylbenzene	50.0	44.9		ug/L		90	70 - 125
Methylene Chloride	50.0	44.5		ug/L		89	68 - 125
Methyl tert-butyl ether	50.0	35.2		ug/L		70	67 - 125
Naphthalene	50.0	38.9		ug/L		78	50 - 136
n-Butylbenzene	50.0	38.6		ug/L		77	70 - 125
N-Propylbenzene	50.0	43.1		ug/L		86	70 - 125
p-Isopropyltoluene	50.0	44.8		ug/L		90	70 - 125
sec-Butylbenzene	50.0	42.4		ug/L		85	70 - 125
Styrene	50.0	45.1		ug/L		90	70 - 125
tert-Butylbenzene	50.0	43.7		ug/L		87	70 - 125
1,1,1,2-Tetrachloroethane	50.0	48.5		ug/L		97	68 - 125
1,1,2,2-Tetrachloroethane	50.0	45.5		ug/L		91	68 - 125
Tetrachloroethene	50.0	50.6		ug/L		101	70 - 125
Toluene	50.0	47.9		ug/L		96	70 - 125
trans-1,2-Dichloroethene	50.0	45.2		ug/L		90	70 - 125
trans-1,3-Dichloropropene	50.0	46.1		ug/L		92	70 - 125
1,2,3-Trichlorobenzene	50.0	40.3		ug/L		81	58 - 135
1,2,4-Trichlorobenzene	50.0	40.8		ug/L		82	64 - 126
1,1,1-Trichloroethane	50.0	44.9		ug/L		90	70 - 125
1,1,2-Trichloroethane	50.0	48.8		ug/L		98	70 - 125
Trichloroethene	50.0	48.1		ug/L		96	70 - 125
Trichlorofluoromethane	50.0	36.4		ug/L		73	60 - 126
1,2,3-Trichloropropane	50.0	41.5		ug/L		83	63 - 125
1,2,4-Trimethylbenzene	50.0	43.1		ug/L		86	70 - 125
1,3,5-Trimethylbenzene	50.0	47.5		ug/L		95	70 - 125
Vinyl chloride	50.0	46.9		ug/L		94	70 - 126
Xylenes, Total	100	80.7		ug/L		81	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*71 - 120*
Dibromofluoromethane	*96*		*70 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*71 - 127*
Toluene-d8 (Surr)	*107*		*75 - 120*

Lab Chronicle

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Client Sample ID: MW-1
Lab Sample ID: 500-124176-1
Date Collected: 02/21/17 11:35
Matrix: Water
Date Received: 02/22/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	373770	02/28/17 16:15	PMF	TAL CHI

Client Sample ID: MW-2
Lab Sample ID: 500-124176-2
Date Collected: 02/21/17 11:45
Matrix: Water
Date Received: 02/22/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	373770	02/28/17 16:40	PMF	TAL CHI

Client Sample ID: MW-2-FD
Lab Sample ID: 500-124176-3
Date Collected: 02/21/17 11:50
Matrix: Water
Date Received: 02/22/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	373770	02/28/17 17:05	PMF	TAL CHI

Client Sample ID: MW-3
Lab Sample ID: 500-124176-4
Date Collected: 02/21/17 12:00
Matrix: Water
Date Received: 02/22/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	373770	02/28/17 17:30	PMF	TAL CHI

Client Sample ID: Trip Blank
Lab Sample ID: 500-124176-5
Date Collected: 02/21/17 00:00
Matrix: Water
Date Received: 02/22/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	373942	03/01/17 14:51	TCT	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: SCS Engineers
Project/Site: 5619 22nd Ave. Kenosha 25216186

TestAmerica Job ID: 500-124176-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: ~~R Langdon~~ Rob Langdon
Company: SCS Engineers
Address: 2830 Dairy Drive
Address:
Phone: 608-216-7329
Fax:
E-Mail: RLangdon@SCSengineers.com

Bill To (optional)
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-124176
Chain of Custody Number:
Page ____ of ____
Temperature °C of Cooler: 4.9-7.4.5

Client: SCS Engineers	Client Project # 25216106	Preservative	1									Preservative Key
Project Name: 5619 22ND Ave. Kenosha		Parameter	VOCS									500-124176 COC
Project Location/State: WI	Lab Project #											
Sampler: Nate Harms	Lab PM											

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCS									Comments
1		MW-1	2-21-17	11:35	3	W	X									
2		MW-2	↓	11:45	3	W	X									
3		MW-2-FD	↓	11:50	3	W	X									
4		MW-3	↓	12:00	3	W	X									
5		TRIP Blank			2	W	X									

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days X 7 Days ___ 10 Days ___ 15 Days ______ Other
Requested Due Date ______

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ______ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Nate Harms	SCS	2/21/17	1500	[signature]	TAL-UI	02/22/17	1030

Lab Courier:
Shipped: FX Priority
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

3/3/2017

TAL-4124-500 (1209)

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-124176-1

Login Number: 124176
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT D

Vapor Sample Collection Logs

Vapor Assessment
Sample Collection Log

PROJECT: 5619 22nd Ave		**SAMPLE ID:** 5619 22nd SS-	**TYPE** (Circle One)*: (SB) AI AR
PROJECT #: 25216186		**SAMPLE INTAKE HEIGHT:** ~ 1ft	**NA for SB**
LOCATION: Kenosha		**APPROX PURGE VOLUME:** ~ 1L	**NA for AI and AR**
SAMPLER: NJH		**APPROX SAMPLING DEPTH:** 5'	**NA for AI and AR**
Sub-Slab Sample Kit #: #2			**NA for AI and AR**
Sub-Slab Sample Manifold #: 2			**NA for AI and AR**
PID #: Mini Rae 3000			

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2-7-17	1548	-29	39	89	W12	29.42	432.6
2-7-17	1618	-7	39	89	W13	29.43	—

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	PACE 1562	
Flow Controller ID#	FC0832	

Sub-Slab Water Dam Test:

Test Passed:	(Yes)	**No**

General Notes/Observations:

Abbreviations:
NA = Not Applicable
SB = Sub-Slab
AI = Indoor Air
AR = Outdoor Air

Vapor Assessment
Sample Collection Log

PROJECT: 5619 22ND Ave	SAMPLE ID: 5619 22ND Ave SS-2 TYPE (Circle One)*: (SB) AI AR
PROJECT #: 2521618	SAMPLE INTAKE HEIGHT: N/A NA for SB
LOCATION: Kenosha	APPROX PURGE VOLUME: ~ 1L NA for AI and AR
SAMPLER: WJH	APPROX SAMPLING DEPTH: 3" NA for AI and AR
Sub-Slab Sample Kit #: 2	NA for AI and AR
Sub-Slab Sample Manifold #: 2	NA for AI and AR
PID #: MiniRae 3000 ppb	

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2-7-17	16:35	-30	38	90	W14	29.44	54.0
	17:05	-8	38	91	W12	29.46	-

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	RAE 0009	
Flow Controller ID#	FC0719	

Sub-Slab Water Dam Test:

Test Passed:	(Yes)	No

General Notes/Observations:

Abbreviations:
NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment
Sample Collection Log

PROJECT: 5619 22nd Ave	**SAMPLE ID:** 5619 22nd SS-3 **TYPE** (Circle One)*: (SB) AI AR		
PROJECT #: 25216186	**SAMPLE INTAKE HEIGHT:** N/A		**NA for SB**
LOCATION: Kenosha	**APPROX PURGE VOLUME:** ~1L		**NA for AI and AR**
SAMPLER: NJH	**APPROX SAMPLING DEPTH:** 3"		**NA for AI and AR**
Sub-Slab Sample Kit #: 2			**NA for AI and AR**
Sub-Slab Sample Manifold #: 2			**NA for AI and AR**
PID #: Mini Rae 3000 ppb			

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2-7-17	17:21	-25.5	38	90	WIZ	29.47	74.72
"	17:57	-8	37	91	W13	29.48	—

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	PACE 0240	
Flow Controller ID#	FC1230	

Sub-Slab Water Dam Test:

Test Passed:	(Yes)	**No**

General Notes/Observations:

Abbreviations:
NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment
Sample Collection Log

PROJECT: 5219 22ND Ave	SAMPLE ID: 5219 22ND Ave Basement TYPE (Circle One)*: SB AI AR
PROJECT #: 252161810	SAMPLE INTAKE HEIGHT: 3.5 NA for SB
LOCATION: Kenosha	APPROX PURGE VOLUME: NA for AI and AR
SAMPLER: JSH	APPROX SAMPLING DEPTH: NA for AI and AR
Sub-Slab Sample Kit #:	NA for AI and AR
Sub-Slab Sample Manifold #:	NA for AI and AR
PID #: MiniRae 3000 ppb	

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2-6-17	13:25	-29.5	39°	67	ESE 8	29.96	0
2-7-17	1240	-2	38	98	NW 15 N-7	29.35	0

Summa Canister Information:

Canister Size:	1L	6L
Canister ID#	PACE 2105	
Flow Controller ID#	FC0341	

Sub-Slab Water Dam Test:

Test Passed:	Yes	No

General Notes/Observations:

Abbreviations:
NA = Not Applicable
AI = Indoor Air
SB = Sub-Slab
AR = Outdoor Air

Vapor Assessment
Sample Collection Log

PROJECT: 5619 22ND Ave	**SAMPLE ID:** 5619 22ND Ave 1st Floor **TYPE** (Circle One)*: SB (AI) AR
PROJECT #: 25216186	**SAMPLE INTAKE HEIGHT:** 4' NA for SB
LOCATION: 1st Floor (Remote)	**APPROX PURGE VOLUME:** NA for AI and AR
SAMPLER: NJH	**APPROX SAMPLING DEPTH:** NA for AI and AR
Sub-Slab Sample Kit #:	NA for AI and AR
Sub-Slab Sample Manifold #:	NA for AI and AR
PID #: Mini Rae 3000 ppb	

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2-6-17	1348	-29.5	39	70	ESE 8	29.84	0
2-7-17	1722	-4	38	97	N 7	29.35	0

Summa Canister Information:

Canister Size:	1L (6L)
Canister ID#	PACE 2151
Flow Controller ID#	FC 1024

Sub-Slab Water Dam Test:

Test Passed:	**Yes**	**No**

General Notes/Observations:

Abbreviations:
NA = Not Applicable
SB = Sub-Slab
AI = Indoor Air
AR = Outdoor Air

Vapor Assessment
Sample Collection Log

PROJECT: 5619 22nd Ave	SAMPLE ID: 5619 22nd Ave - 2nd floor TYPE (Circle One)*: SB (AI) AR
PROJECT #: 25216186	SAMPLE INTAKE HEIGHT: 1' NA for SB
LOCATION: 2nd Floor	APPROX PURGE VOLUME: NA for AI and AR
SAMPLER: MJH	APPROX SAMPLING DEPTH: NA for AI and AR
Sub-Slab Sample Kit #:	NA for AI and AR
Sub-Slab Sample Manifold #:	NA for AI and AR
PID #: MiniRae 3000 ppb	

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2-6-17	1430	-30	41	68	ESE 8	29.82	0
2-7-17	1228	-6	38	97	NW 7	29.35	0

Summa Canister Information:

Canister Size:	1L (6L)
Canister ID#	Rae 2727
Flow Controller ID#	FC0526

Sub-Slab Water Dam Test:

Test Passed:	Yes	No

General Notes/Observations:

Abbreviations:
NA = Not Applicable
SB = Sub-Slab
AI = Indoor Air
AR = Outdoor Air

Vapor Assessment
Sample Collection Log

PROJECT: 5619 22nd Ave	**SAMPLE ID:** 5619 22nd Ave Outdoor **TYPE** (Circle One)*: SB AI AR
PROJECT #: 2521618	**SAMPLE INTAKE HEIGHT:** 4' **NA for SB**
LOCATION: Outdoor (Kenosha)	**APPROX PURGE VOLUME:** **NA for AI and AR**
SAMPLER: NJH	**APPROX SAMPLING DEPTH:** **NA for AI and AR**
Sub-Slab Sample Kit #:	**NA for AI and AR**
Sub-Slab Sample Manifold #:	**NA for AI and AR**
PID #: Mini Rae 3000 ppb	

Instrument/Weather Readings:

Date	Time	Canister Vacuum (" of Hg)	Temp (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (" of Hg)	PID Reading (ppm/ppb)
2-6-17	14:12	-28.5	41	65	SE 8	29.83	0
2-7-17	12:34	-2	38	97	N 7	29.35	0

Summa Canister Information:

Canister Size:	1L 6L
Canister ID#	PACE 2344
Flow Controller ID#	FC0277

Sub-Slab Water Dam Test:

Test Passed:	**Yes**	**No**

General Notes/Observations:

Abbreviations:
NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

ATTACHMENT E

Vapor Assessment Laboratory Reports

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

February 21, 2017

Rob Langdon
SCS Engineers
2830 Dairy Drive
Madison, WI 53718

RE: Project: 25216186 5619 22nd Ave. Kenosh
Pace Project No.: 10378651

Dear Rob Langdon:
Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 25216186 5619 22nd Ave. Kenosh
Pace Project No.: 10378651

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
Alaska Certification UST-107
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 25216186 5619 22nd Ave. Kenosh
Pace Project No.: 10378651

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10378651001	**5619 22nd Ave. Basement**	Air	02/07/17 12:40	02/09/17 09:45
10378651002	**5619 22nd Ave. 1st Floor**	Air	02/07/17 12:22	02/09/17 09:45
10378651003	**5619 22nd Ave. 2nd Floor**	Air	02/07/17 12:28	02/09/17 09:45
10378651004	**5619 22nd Ave. Outdoor**	Air	02/07/17 12:34	02/09/17 09:45
10378651005	**5619 22nd Ave. SS-1**	Air	02/07/17 16:18	02/09/17 09:45
10378651006	**5619 22nd Ave. SS-2**	Air	02/07/17 17:05	02/09/17 09:45
10378651007	**5619 22nd Ave. SS-3**	Air	02/07/17 17:57	02/09/17 09:45

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SAMPLE ANALYTE COUNT

Project: 25216186 5619 22nd Ave. Kenosh
Pace Project No.: 10378651

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10378651001	**5619 22nd Ave. Basement**	TO-15	EMC	5	PASI-M
10378651002	**5619 22nd Ave. 1st Floor**	TO-15	EMC	5	PASI-M
10378651003	**5619 22nd Ave. 2nd Floor**	TO-15	EMC	5	PASI-M
10378651004	**5619 22nd Ave. Outdoor**	TO-15	EMC	5	PASI-M
10378651005	**5619 22nd Ave. SS-1**	TO-15	EMC	5	PASI-M
10378651006	**5619 22nd Ave. SS-2**	TO-15	EMC	5	PASI-M
10378651007	**5619 22nd Ave. SS-3**	TO-15	EMC	5	PASI-M

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ANALYTICAL RESULTS

Project: 25216186 5619 22nd Ave. Kenosh
Pace Project No.: 10378651

Sample: 5619 22nd Ave. Basement **Lab ID: 10378651001** Collected: 02/07/17 12:40 Received: 02/09/17 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**20.2**	ug/m3	1.3	0.38	1.55		02/18/17 18:58	156-59-2	
trans-1,2-Dichloroethene	**<0.60**	ug/m3	1.3	0.60	1.55		02/18/17 18:58	156-60-5	
Tetrachloroethene	**38.8**	ug/m3	1.1	0.43	1.55		02/18/17 18:58	127-18-4	
Trichloroethene	**5.7**	ug/m3	0.85	0.43	1.55		02/18/17 18:58	79-01-6	
Vinyl chloride	**<0.30**	ug/m3	0.40	0.30	1.55		02/18/17 18:58	75-01-4	

Sample: 5619 22nd Ave. 1st Floor **Lab ID: 10378651002** Collected: 02/07/17 12:22 Received: 02/09/17 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**4.7**	ug/m3	1.3	0.40	1.61		02/18/17 19:27	156-59-2	
trans-1,2-Dichloroethene	**<0.62**	ug/m3	1.3	0.62	1.61		02/18/17 19:27	156-60-5	
Tetrachloroethene	**9.2**	ug/m3	1.1	0.45	1.61		02/18/17 19:27	127-18-4	
Trichloroethene	**1.7**	ug/m3	0.89	0.44	1.61		02/18/17 19:27	79-01-6	
Vinyl chloride	**<0.31**	ug/m3	0.42	0.31	1.61		02/18/17 19:27	75-01-4	

Sample: 5619 22nd Ave. 2nd Floor **Lab ID: 10378651003** Collected: 02/07/17 12:28 Received: 02/09/17 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**3.4**	ug/m3	1.4	0.41	1.68		02/18/17 19:55	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		02/18/17 19:55	156-60-5	
Tetrachloroethene	**7.9**	ug/m3	1.2	0.47	1.68		02/18/17 19:55	127-18-4	
Trichloroethene	**1.2**	ug/m3	0.92	0.46	1.68		02/18/17 19:55	79-01-6	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		02/18/17 19:55	75-01-4	

Sample: 5619 22nd Ave. Outdoor **Lab ID: 10378651004** Collected: 02/07/17 12:34 Received: 02/09/17 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.2	0.37	1.49		02/18/17 20:24	156-59-2	
trans-1,2-Dichloroethene	**<0.57**	ug/m3	1.2	0.57	1.49		02/18/17 20:24	156-60-5	
Tetrachloroethene	**12.2**	ug/m3	1.0	0.41	1.49		02/18/17 20:24	127-18-4	
Trichloroethene	**<0.41**	ug/m3	0.82	0.41	1.49		02/18/17 20:24	79-01-6	
Vinyl chloride	**<0.29**	ug/m3	0.39	0.29	1.49		02/18/17 20:24	75-01-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25216186 5619 22nd Ave. Kenosh
Pace Project No.: 10378651

Sample: 5619 22nd Ave. SS-1 **Lab ID: 10378651005** Collected: 02/07/17 16:18 Received: 02/09/17 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**23.1**	ug/m3	1.5	0.45	1.83		02/18/17 20:56	156-59-2	
trans-1,2-Dichloroethene	**23.3**	ug/m3	1.5	0.70	1.83		02/18/17 20:56	156-60-5	
Tetrachloroethene	**2880000**	ug/m3	12900	2600	9369.6		02/20/17 18:13	127-18-4	A3,E
Trichloroethene	**7050**	ug/m3	639	162	585.6		02/20/17 13:09	79-01-6	A3
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		02/18/17 20:56	75-01-4	

Sample: 5619 22nd Ave. SS-2 **Lab ID: 10378651006** Collected: 02/07/17 17:05 Received: 02/09/17 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**6.9**	ug/m3	1.4	0.41	1.68		02/18/17 21:26	156-59-2	
trans-1,2-Dichloroethene	**47.6**	ug/m3	1.4	0.65	1.68		02/18/17 21:26	156-60-5	
Tetrachloroethene	**6710**	ug/m3	46.3	9.3	33.6		02/20/17 12:15	127-18-4	
Trichloroethene	**363**	ug/m3	36.7	9.3	33.6		02/20/17 12:15	79-01-6	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		02/18/17 21:26	75-01-4	

Sample: 5619 22nd Ave. SS-3 **Lab ID: 10378651007** Collected: 02/07/17 17:57 Received: 02/09/17 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**5.5**	ug/m3	1.5	0.45	1.83		02/18/17 21:55	156-59-2	
trans-1,2-Dichloroethene	**2.0**	ug/m3	1.5	0.70	1.83		02/18/17 21:55	156-60-5	
Tetrachloroethene	**180000**	ug/m3	1620	326	1171.2		02/20/17 17:46	127-18-4	A3
Trichloroethene	**472**	ug/m3	160	40.4	146.4		02/20/17 12:42	79-01-6	A3
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		02/18/17 21:55	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25216186 5619 22nd Ave. Kenosh
Pace Project No.: 10378651

QC Batch: 460708 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10378651001, 10378651002, 10378651003, 10378651004, 10378651005, 10378651006, 10378651007

METHOD BLANK: 2519802 Matrix: Air
Associated Lab Samples: 10378651001, 10378651002, 10378651003, 10378651004, 10378651005, 10378651006, 10378651007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	02/18/17 11:22	
Tetrachloroethene	ug/m3	<0.28	0.69	02/18/17 11:22	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	02/18/17 11:22	
Trichloroethene	ug/m3	<0.28	0.55	02/18/17 11:22	
Vinyl chloride	ug/m3	<0.20	0.26	02/18/17 11:22	

LABORATORY CONTROL SAMPLE: 2519803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	45.6	113	65-139	
Tetrachloroethene	ug/m3	68.9	83.9	122	60-142	
trans-1,2-Dichloroethene	ug/m3	40.3	45.1	112	67-137	
Trichloroethene	ug/m3	54.6	62.1	114	60-144	
Vinyl chloride	ug/m3	26	27.7	107	63-135	

SAMPLE DUPLICATE: 2520204

Parameter	Units	10379197001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.38		25	
Tetrachloroethene	ug/m3	8210	3450	82	25	E,R1
trans-1,2-Dichloroethene	ug/m3	ND	<0.60		25	
Trichloroethene	ug/m3	136	131	4	25	
Vinyl chloride	ug/m3	ND	<0.30		25	

SAMPLE DUPLICATE: 2520205

Parameter	Units	10379197003 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.35		25	
Tetrachloroethene	ug/m3	187	175	6	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.55		25	
Trichloroethene	ug/m3	6.2	5.4	14	25	
Vinyl chloride	ug/m3	ND	<0.28		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 25216186 5619 22nd Ave. Kenosh
Pace Project No.: 10378651

DEFINITIONS

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

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25216186 5619 22nd Ave. Kenosh
Pace Project No.: 10378651

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10378651001	**5619 22nd Ave. Basement**	TO-15	460708		
10378651002	**5619 22nd Ave. 1st Floor**	TO-15	460708		
10378651003	**5619 22nd Ave. 2nd Floor**	TO-15	460708		
10378651004	**5619 22nd Ave. Outdoor**	TO-15	460708		
10378651005	**5619 22nd Ave. SS-1**	TO-15	460708		
10378651006	**5619 22nd Ave. SS-2**	TO-15	460708		
10378651007	**5619 22nd Ave. SS-3**	TO-15	460708		

10378651

Pace Analytical®
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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26698

Page: 1 of 1

Section A Required Client Information:

Company: SCS Engineers
Address: 2830 Dairy Drive
Email To: RLangdon@SCSengineers.com
Phone: 608-216-7329 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Robert Langdon
Copy To:
Purchase Order No.:
Project Name: 5619 22nd Ave. Kenosha
Project Number: 25216186

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State:

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level: II.___ III.___ IV.___ Other___

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	TIME	COMPOSITE - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	5619 22nd Ave. Basement	6LC	0	2-6-17	1325	2-7-17	1340	-29.5	-2	21050	03411								X		001
2	5619 22nd Ave. 1st Floor	6LC	8	2-6-17	1348	2-7-17	1322	-29.5	-4	21511	02404								X		002
3	5619 22nd Ave. 2nd Floor	6LC	0	2-6-17	1430	2-7-17	1228	-30	-6	27270	05216								X		003
4	5619 22nd Ave Outdoor	6LC	0	2-6-17	1412	2-7-17	1234	-28.5	-2	23440	02707								X		004
5	5619 22nd Ave SS-1	6LC	432	2-7-17	1548	2-7-17	1618	-29	-7	15620	05312								X		005
6	5619 22nd Ave SS-2	6LC	154	2-7-17	1635	2-7-17	1705	-30	-8	00090	07199								X		006
7	5619 22nd Ave SS-3	6LC	74	2-7-17	1721	2-7-17	1757	-28.5	-8	02401	23000								X		007
8																					
9																					
10																					
11																					
12																					

Comments:

* PCE, TCE, cis & trans 12DCE, and vinyl chloride

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Nate Haynes (SCS)	2-8-17	10:30	Pace	2917	0945

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nate Haynes

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY): 02/08/17

SAMPLE CONDITIONS

	Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	AMB	Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: SCS Eng.

Project #: WO# : 10378651

10378651

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 663750413429, 663750413430

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: Temp Blank rec: ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): Corrected Temp (°C): Thermom. Used: ☐ B88A912167504 ☐ B88A0143310098 ☐ 151401163 ☐ 151401164

Temp should be above freezing to 6°C Correction Factor: Date & Initials of Person Examining Contents: 2/9/17

Type of ice Received ☐ Blue ☐ Wet ☒ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Carolyne Trust Date: 2/9/17

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

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 830-644-2130

Lab Project Number: 10378651
Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651001 ProjSampleNum: 10378651001 Date Collected: 02/07/17 12:40
Client Sample ID: 5619 22nd Ave. Basement Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	5	ppbv	0.32	0.094	02/18/17 18:58 EMC	156-59-2	
Tetrachloroethene	5.6	ppbv	0.16	0.062	02/18/17 18:58 EMC	127-18-4	
trans-1,2-Dichloroethene	<0.15	ppbv	0.32	0.15	02/18/17 18:58 EMC	156-60-5	
Trichloroethene	1	ppbv	0.16	0.079	02/18/17 18:58 EMC	79-01-6	
Vinyl chloride	<0.12	ppbv	0.15	0.12	02/18/17 18:58 EMC	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 830-644-2130

Lab Project Number: 10378651
Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651002 ProjSampleNum: 10378651002 Date Collected: 02/07/17 12:22
Client Sample ID: 5619 22nd Ave. 1st Floor Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	1.2	ppbv	0.32	0.099	02/18/17 19:27 EMC	156-59-2	
Tetrachloroethene	1.3	ppbv	0.16	0.065	02/18/17 19:27 EMC	127-18-4	
trans-1,2-Dichloroethene	<0.15	ppbv	0.32	0.15	02/18/17 19:27 EMC	156-60-5	
Trichloroethene	0.31	ppbv	0.16	0.081	02/18/17 19:27 EMC	79-01-6	
Vinyl chloride	<0.12	ppbv	0.16	0.12	02/18/17 19:27 EMC	75-01-4	

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Units Conversion Request

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 830-644-2130

Lab Project Number: 10378651
Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651003 ProjSampleNum: 10378651003 Date Collected: 02/07/17 12:28
Client Sample ID: 5619 22nd Ave. 2nd Floor Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	0.84	ppbv	0.35	0.1	02/18/17 19:55 EMC	156-59-2	
Tetrachloroethene	1.1	ppbv	0.17	0.068	02/18/17 19:55 EMC	127-18-4	
trans-1,2-Dichloroethene	<0.16	ppbv	0.35	0.16	02/18/17 19:55 EMC	156-60-5	
Trichloroethene	0.22	ppbv	0.17	0.084	02/18/17 19:55 EMC	79-01-6	
Vinyl chloride	<0.13	ppbv	0.17	0.13	02/18/17 19:55 EMC	75-01-4	

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 830-644-2130

Lab Project Number: 10378651
Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651004 ProjSampleNum: 10378651004 Date Collected: 02/07/17 12:34
Client Sample ID: 5619 22nd Ave. Outdoor Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.092	ppbv	0.3	0.092	02/18/17 20:24 EMC	156-59-2	
Tetrachloroethene	1.8	ppbv	0.15	0.059	02/18/17 20:24 EMC	127-18-4	
trans-1,2-Dichloroethene	<0.14	ppbv	0.3	0.14	02/18/17 20:24 EMC	156-60-5	
Trichloroethene	<0.075	ppbv	0.15	0.075	02/18/17 20:24 EMC	79-01-6	
Vinyl chloride	<0.11	ppbv	0.15	0.11	02/18/17 20:24 EMC	75-01-4	

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 830-644-2130

Lab Project Number: 10378651
Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651005 ProjSampleNum: 10378651005 Date Collected: 02/07/17 16:18
Client Sample ID: 5619 22nd Ave. SS-1 Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed		CAS No.	Ftnote
Air								
TO-15								
cis-1,2-Dichloroethene	5.7	ppbv	0.37	0.11	02/18/17 20:56	EMC	156-59-2	
Tetrachloroethene	418000	ppbv	1870	377	02/20/17 18:13	EMC	127-18-4	A3, E
trans-1,2-Dichloroethene	5.8	ppbv	0.37	0.17	02/18/17 20:56	EMC	156-60-5	
Trichloroethene	1290	ppbv	117	29.7	02/20/17 13:09	EMC	79-01-6	A3
Vinyl chloride	<0.14	ppbv	0.18	0.14	02/18/17 20:56	EMC	75-01-4	

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 830-644-2130

Lab Project Number: 10378651
Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651006 ProjSampleNum: 10378651006 Date Collected: 02/07/17 17:05
Client Sample ID: 5619 22nd Ave. SS-2 Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	1.7	ppbv	0.35	0.1	02/18/17 21:26 EMC	156-59-2	
Tetrachloroethene	973	ppbv	6.7	1.3	02/20/17 12:15 EMC	127-18-4	
trans-1,2-Dichloroethene	11.8	ppbv	0.35	0.16	02/18/17 21:26 EMC	156-60-5	
Trichloroethene	66.5	ppbv	6.7	1.7	02/20/17 12:15 EMC	79-01-6	
Vinyl chloride	<0.13	ppbv	0.17	0.13	02/18/17 21:26 EMC	75-01-4	

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 830-644-2130

Lab Project Number: 10378651
Project Name: 25216186 5619 22nd Ave. Keno

Lab Sample No: 10378651007 ProjSampleNum: 10378651007 Date Collected: 02/07/17 17:57
Client Sample ID: 5619 22nd Ave. SS-3 Matrix: Air Date Received: 02/09/17 9:45

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	1.4	ppbv	0.37	0.11	02/18/17 21:55 EMC	156-59-2	
Tetrachloroethene	26100	ppbv	235	47.3	02/20/17 17:46 EMC	127-18-4	A3
trans-1,2-Dichloroethene	0.5	ppbv	0.37	0.17	02/18/17 21:55 EMC	156-60-5	
Trichloroethene	86.4	ppbv	29.3	7.4	02/20/17 12:42 EMC	79-01-6	A3
Vinyl chloride	<0.14	ppbv	0.18	0.14	02/18/17 21:55 EMC	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 830-644-2130

Lab Project Number: 10378651
Project Name: 25216186 5619 22nd Ave. Keno

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

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

[A3] The sample was analyzed by serial dilution.

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

ATTACHMENT F

Photos of Sump

Photos of Sump, Arctic Laundry & Cleaners (former)
5619 22nd Avenue, Kenosha, WI
February 7, 2017
SCS Engineers Project #25216186.00

Photo 1: Looking east at sump

Photo 2: Looking east at sump pump piping in rafters

Photos of Sump, Arctic Laundry & Cleaners (former)
5619 22nd Avenue, Kenosha, WI
February 7, 2017
SCS Engineers Project #25216186.00

Photo 3: Looking northwest at sump pump piping

Photo 4: View inside sump

Photos of Sump, Arctic Laundry & Cleaners (former)
5619 22nd Avenue, Kenosha, WI
February 7, 2017
SCS Engineers Project #25216186.00

Photo 5: Sump pump piping at east end of building

Photo 6: Sump pump discharge point outside east end of building