December 8, 2017 Reference No. 002012

Mr. Fred Campbell
Minnesota Pollution Control Agency
Remediation Division
Superfund and Emergency Response Section
520 Lafayette Road
St. Paul, Minnesota 55155-4194

Dear Mr. Campbell:

Re: Data Report
October 2017 Residential Well Sampling Event
North Oaks, Minnesota

On behalf of Whirlpool Corporation and Reynolds Metals Company (dba Arconic, Inc.), GHD Services Inc. (GHD) has prepared the following data report associated with the Residential Well Sampling Event conducted in North Oaks, Minnesota in October 2017. The October 2017 Residential Well Sampling Event was conducted in general accordance with the long-term monitoring program for Operable Unit 4 (OU4) outlined in CRA's Feasibility Study Report (dated July 26, 2007 and approved by the Minnesota Pollution Control Agency (MPCA) on November 7, 2007) and as proposed in GHD's letter to MPCA dated September 20, 2017.

A discussion of the work performed and summary of the sampling results are presented below.

1. Sampling Program

During the period from October 16, 2017 through October 25, 2017, GHD attempted to collect samples from 76 residential well locations in North Oaks. Samples were only collected from well locations where expressed permission was obtained and a water source at the residence was accessible. Of the 76 proposed well locations, GHD was able to collect samples from 66 locations. Samples were not collected from 10 of the proposed well locations because the resident either declined sampling, did not respond, or had their water turned off (see field notes in Table 1).

Where possible, samples were collected from an outside tap and/or from an untreated water source (i.e., not softened or filtered). Prior to sampling, the tap was allowed to run (purge) for approximately 20 minutes to purge the water line and pressure tank of residual water. The purge rate was measured and recorded. If a sample was collected from an outside tap, the water was directed via hose to an area of the yard that minimized the creation of pooled water or ice in an undesirable location. Field measurements for pH, conductivity, temperature, dissolved oxygen, and oxidation-reduction potential (ORP) were taken after purging, prior to sampling. Seven (7) duplicate samples, eight (8) field blank samples, and four (4) matrix spike/matrix spike duplicate (MS/MSD) samples were collected for quality assurance/quality control (QA/QC) purposes. A trip blank was also included with each sample cooler containing samples for analysis of volatile organic compounds (VOCs). A sampling summary is provided in Table 1.

Water samples were collected directly from the tap after the purge hose was disconnected. Samples were placed on ice immediately following sample collection and were shipped to the MPCA-approved laboratory (TestAmerica Laboratories Inc. in Buffalo, New York) using standard chain-of-custody procedures. Samples were submitted for analysis of volatile organic compounds (VOCs) and chloride. VOC samples were analyzed using Method 524.2. Chloride samples were analyzed using Method 300.0A..

2. Sampling Results

Laboratory analytical reports and GHD's Data Quality Assessment and Validation memorandum associated with the October 2017 Residential Well Sampling Event are provided as Attachments A and B, respectively. A summary of detected compounds from the October 2017 Residential Well Sampling Event is presented in Table 2. Table 2 also presents the current Minnesota Department of Health (MDH) Health-Based Guidance (HBG) for each compound detected.

The October 2017 sampling results are generally consistent with results from previous sampling rounds conducted from October 2004 through April 2017.

Vinyl chloride results from the October 2017 Residential Well Sampling Event are presented on Figure 1. As shown on Figure 1 and in Table 2, vinyl chloride was not detected in any of the residential well samples collected in October 2017. The method detection limit (MDL) associated with the October 2017 laboratory results for vinyl chloride is 0.18 µg/L (i.e. any vinyl chloride concentrations detected between the MDL [0.18 µg/L] and the reporting limit (RL) [0.20 µg/L] would have been reported and flagged as estimated [J]). The MDH Health Risk Limit (HRL) and Health Based Value (HBV) for vinyl chloride is 0.20 µg/L.

Updated graphs of historical vinyl chloride sampling results at active residential wells where vinyl chloride has been detected previously are provided in Attachment C.

One MPCA-listed VOC[1] (1,1-dichloroethane) and three other VOCs (Dichlorodifluoromethane, Dichlorofluoromethane, and 2,2-Dichloropropane) were detected in residential well samples collected in October 2017. All detected concentrations are below their respective HBG.

1,1-Dichloroethane (11DCA) was detected in four residential well samples collected in October 2017 (see Table 2) at concentrations ranging from 0.19 J µg/L (3 Buffalo Road) to 0.79 µg/L (20 Duck Pass Road). The October 2017 detections of 11DCA are consistent with previous sampling results. As of October 2017, 11DCA detections in residential wells remain well below the Risk Assessment Advice (RAA) for 11DCA (80 µg/L). There is no HRL established for 11DCA.

Dichlorodifluoromethane (DCDFM) was detected in two residential well samples collected in October 2017 (see Table 2) at concentrations of 0.60 µg/L (9 Duck Pass Road) and 1.0 µg/L (20 Duck Pass Road). The

[1] As identified on Table 1 of MPCA's MDD Amendment dated August 26, 2008 (1,1,2-trichloroethene (TCE), vinyl chloride, trans-1,2-dichloroethene, 1,1-dichloroethane, benzene, toluene, and methyl ethyl ketone).

October 2017 detections of DCDFM are consistent with previous sampling results. As of October 2017, DCDFM detections in residential wells remain well below the HRL for DCDFM (700 µg/L).

Dichlorofluoromethane (DCFM) was detected in one residential well sample collected in October 2017 (see Table 2) at a concentration of 0.57 µg/L (20 Duck Pass Road). The October 2017 detection of DCFM is consistent with previous sampling results. As of October 2017, DCFM detections in residential wells remain below the RAA for DCFM (20 µg/L). There is no HRL established for DCFM.

2,2-Dichloropropane (22DCP) was detected in one residential well sample collected in October 2017 (see Table 2) at a concentration of 1.0 µg/L (37 Robb Farm Road). However, a duplicate sample set was collected at this location and 22DCP was not detected above the MDL (0.50 µg/L) in the other sample. The October 2017 detection of 22DCP is inconsistent with historical sampling results. As discussed in previous reports submitted to the MPCA, isolated detections of low-level VOCs in residential wells in OU4 are likely attributed to residential septic systems. There is no HBG established for 22DCP.

Chloride concentrations in residential well samples collected in October 2017 ranged from 0.5 mg/L (4 Cardinal Lane) to 69.9 mg/L (43 Robb Farm Road) (see Table 2). Historically, chloride has been detected in residential wells at similar concentrations.

3. Future Sampling

The next residential well sampling event in North Oaks will be determined by the MPCA following their review of GHD's letter dated November 6, 2017, which outlined proposed modifications to the residential well sampling program

If you have any questions or require additional information, please call us at (651) 639-0913.

Sincerely,

GHD

Sarah Illi, P.E. Brian Sandberg, P.G.

SR/sb/87

Encl.

cc: Emily Hansen, Minnesota Department of Health
Mayor, City of North Oaks
Mike Robertson, City of North Oaks
Michelle Hosfield, Wenck Associates
North Oaks Homeowners' Association
Highway 96 Group

OCTOBER 2017

67 WELLS SAMPLED

67 WELLS - VINYL CHLORIDE NOT DETECTED
0 WELLS - VINYL CHLORIDE DETECTED AT OR BELOW HEALTH RISK LIMIT
0 WELLS - VINYL CHLORIDE DETECTED ABOVE HEALTH RISK LIMIT (0.2 µg/L)

LEGEND

ND	VINYL CHLORIDE NOT DETECTED (DETECTION LIMIT = 0.18 µg/L)
ND/ND	DUPLICATE SAMPLE RESULT
NS	NOT SAMPLED (NO RESPONSE/DECLINED/WATER OFF)
	CONNECTED TO MUNICIPAL WATER SUPPLY
	GEOGRAPHIC AREAS
# RP	REPLACEMENT WELL INSTALLED BY RPs (PRAIRIE DU CHIEN AQUIFER) [OLD WELL ABANDONED]
# RP-J	REPLACEMENT WELL INSTALLED BY RPs (EXTENDED INTO JORDAN AQUIFER AT HOMEOWNERS REQUEST/EXPENSE) [OLD WELL ABANDONED]
# H-J	NEW WELL INSTALLED BY HOMEOWNER (JORDAN AQUIFER) [OLD WELL ABANDONED]
*	CONVERTED RESIDENTIAL MONITORING WELL LOCATION

N

0 250 500 ft

figure 1

VINYL CHLORIDE CONCENTRATIONS (OCTOBER 2017)

North Oaks, Minnesota

002012-00(CAMP087)GIS-SP001 NOV 28/2017

Table 1

Sampling Summary
October 2017
Residential Well Sampling Event
North Oaks, Minnesota

Well Address	Sample ID	Sampled By	Date (mm/dd/yyyy)	Purge Time (min)	Flow Rate (gpm)	pH	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	Clarity	QA/QC	QA/QC Sample ID	Notes
1 Birch Lane	W-171018-MB-35	GHD	10/18/2017	20	6	7.52	10.38	502	1.98	-102.7	Clear	--	--	--
2 Birch Lane	W-171018-MB-33	GHD	10/18/2017	20	10	7.19	10.77	518	3.09	-39.8	Clear	--	--	--
3 Birch Lane	W-171018-MB-34	GHD	10/18/2017	20	15	7.39	9.87	460	1.85	-69.1	Clear	--	--	--
1 Buffalo Road	W-171019-MB-71	GHD	10/19/2017	20	10	7.42	9.94	517	1.95	-110.0	Clear	--	--	--
3 Buffalo Road	W-171018-MB-47	GHD	10/18/2017	20	10	7.67	9.71	525	3.58	-90.7	Clear	--	--	--
2 Cardinal Lane	W-171016-MB-02	GHD	10/16/2017	20	10	7.65	9.85	631	2.82	-122.0	Clear	--	--	--
4 Cardinal Lane	W-171019-MB-72	GHD	10/19/2017	20	10	7.93	12.21	332	3.10	-70.5	Clear	--	--	--
9 Duck Pass Road	W-171019-MB-67	GHD	10/19/2017	20	10	7.73	9.19	520	3.77	-94.9	Clear	--	--	--
11 Duck Pass Road	--	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled (resident declined)
13 Duck Pass Road	--	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled (water was shut off)

Table 1

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Well Address	Sample ID	Sampled By	Date (mm/dd/yyyy)	Purge Time (min)	Flow Rate (gpm)	pH	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	Clarity	QA/QC	QA/QC Sample ID	Notes
15 Duck Pass Road	W-171019-MB-73	GHD	10/19/2017	20	10	7.94	9.71	439	2.11	-104.6	Clear	MS/MSD FD	-- W-171019-MB-74	--
20 Duck Pass Road	W-171019-MB-66	GHD	10/19/2017	20	6	7.61	9.54	501	2.14	-109.1	Clear	--	--	--
22 Duck Pass Road	--	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled (no response from resident)
24 Duck Pass Road	W-171025-MB-83	GHD	10/25/2017	20	7	7.89	9.27	381	0.81	-139.6	Clear	--	--	--
26 Duck Pass Road	W-171019-MB-65	GHD	10/19/2017	20	8	7.85	9.39	495	5.32	-122.8	Clear	--	--	--
28 Duck Pass Road	W-171019-MB-63	GHD	10/19/2017	20	4	7.51	11.03	622	2.91	-38.5	Clear	FB	W-171019-MB-64	--
32 East Oaks Road	W-171018-MB-57	GHD	10/18/2017	21	12	7.89	9.59	425	4.07	-107.7	Clear	--	--	--
36 East Oaks Road	W-171018-MB-56	GHD	10/18/2017	21	6	7.71	9.97	466	2.72	-111.6	Clear	--	--	--
38 East Oaks Road	W-171025-MB-78	GHD	10/25/2017	27	10	7.69	9.90	340	2.68	-38.5	Clear	--	--	Treatment system bypassed
44 East Oaks Road	W-171017-MB-30	GHD	10/17/2017	20	10	7.62	11.08	455	1.76	-90.4	Clear	MS/MSD	--	--

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50 East Oaks Road	W-171018-MB-40	GHD	10/18/2017	20	6	7.42	11.26	571	3.52	-97.7	Clear	--	--	--
1 Eagle Ridge Road	W-171018-MB-49	GHD	10/18/2017	20	8	7.41	10.10	530	1.99	87.4	Clear	FD	W-171018-MB-50	Treated Sample (iron filter not bypassed per resident's request).
2 Eagle Ridge Road	W-171018-MB-48	GHD	10/18/2017	20	8	7.62	10.05	521	3.55	-109.1	Clear	--	--	--
3 Eagle Ridge Road	W-171018-MB-51	GHD	10/18/2017	20	10	7.66	10.43	520	2.21	-132.3	Clear	FB	W-171018-MB-52	--
4 Eagle Ridge Road	W-171018-MB-53	GHD	10/18/2017	21	6	7.61	10.63	529	3.71	-109.0	Clear	--	--	--
5 Eagle Ridge Road	--	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled (no response from resident)
6 Eagle Ridge Road	W-171018-MB-54	GHD	10/18/2017	20	6	7.48	10.61	571	1.49	-117.3	Clear	MS/MSD	--	--
10 Eagle Ridge Road	W-171018-MB-55	GHD	10/18/2017	20	10	7.79	9.58	437	1.96	-134.4	Clear	--	--	--
1 Gadwall Lane	W-171019-MB-60	GHD	10/19/2017	20	8	7.85	9.39	482	2.31	-103.8	Clear	--	--	--
2 Gadwall Lane	W-171019-MB-61	GHD	10/19/2017	22	5	7.39	11.45	515	3.83	-122.7	Clear	FD	W-171019-MB-62	--

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3 Gadwall Lane	W-171019-MB-59	GHD	10/19/2017	20	6	8.02	9.44	401	2.06	-110.8	Clear	--	--	--
4 Gadwall Lane	W-171016-MB-03	GHD	10/16/2017	20	12	7.76	9.40	657	3.83	-123.0	Clear	--	--	--
1 Hummingbird Hill	W-171025-MB-81	GHD	10/25/2017	37	7	7.75	11.76	533	8.53	-32.3	Clear	--	--	--
2 Heron Lane	W-171018-MB-32	GHD	10/18/2017	20	8	8.04	11.46	446	4.56	-53.0	Clear	--	--	--
3 Mallard Lane	W-171016-MB-04	GHD	10/16/2017	20	6	7.66	9.26	633	3.27	-104.6	Clear	--	--	--
5 Mallard Lane	W-171019-MB-76	GHD	10/19/2017	20	10	7.64	10.00	467	3.67	-69.8	Clear	FB	W-171019-MB-77	--
6 Mallard Lane	W-171019-MB-68	GHD	10/19/2017	23	10	7.53	9.46	457	2.82	-97.5	Clear	--	--	--
7 Mallard Lane	W-171019-MB-75	GHD	10/19/2017	20	10	7.62	12.11	539	6.59	-44.3	Clear	--	--	--
1 Poplar Lane	W-171017-MB-10	GHD	10/17/2017	20	10	7.86	10.55	334	1.70	-142.5	Clear	--	--	--
3 Poplar Lane	W-171017-MB-11	GHD	10/17/2017	20	8	7.66	9.70	484	1.39	-127.3	Clear	MS/MSD	--	--

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4 Poplar Lane	W-171017-MB-08	GHD	10/17/2017	21	10	7.66	10.18	513	1.51	-130.5	Clear	FB	W-171017-MB-09	Treated Sample
6 Poplar Lane	W-171017-MB-07	GHD	10/17/2017	20	8	7.61	9.80	402	2.19	-106.2	Clear	--	--	--
8 Poplar Lane	W-171017-MB-05	GHD	10/17/2017	20	8	7.36	10.69	499	2.68	-125.8	Clear	FD	W-171017-MB-06	--
1 Quail Lane	W-171018-MB-38	GHD	10/18/2017	20	6	7.39	10.29	535	1.30	-53.8	Clear	FB	W-171018-MB-39	--
3 Quail Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled (no response from resident)
1 Robb Farm Road	W-171019-MB-69	GHD	10/19/2017	20	6	7.55	9.72	453	2.46	-94.2	Clear	--	--	--
2 Robb Farm Road	--	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled (no response from resident)
4 Robb Farm Road	--	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled (no response from resident)
35 Robb Farm Road	W-171017-MB-12	GHD	10/17/2017	20	10	7.45	10.36	645	2.97	-141.5	Clear	--	--	--
37 Robb Farm Road	W-171017-MB-13	GHD	10/17/2017	20	NR	NR	NR	NR	NR	NR	NR	FD	W-171017-MB-14	--

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41 Robb Farm Road	W-171017-MB-15	GHD	10/17/2017	20	NR	NR	NR	NR	NR	NR	NR	FB	W-171017-MB-16	--
43 Robb Farm Road	W-171017-MB-17	GHD	10/17/2017	20	5	7.41	10.72	654	2.33	-119.1	Clear	--	--	--
44 Robb Farm Road	W-171025-MB-79	GHD	10/25/2017	20	NR	7.48	11.09	308	4.02	-113.7	Clear, slightly yellow	FB	W-171025-MB-80	Treatment system bypassed. Sulfer odor.
45 Robb Farm Road	W-171017-MB-18	GHD	10/17/2017	20	6	7.47	11.13	499	5.01	-62.0	Clear	--	--	--
2 Ski Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled (no response from resident)
4 Ski Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled (no response from resident)
6 Ski Lane	W-171018-MB-41	GHD	10/18/2017	21	4	7.57	11.91	516	4.45	-89.6	Clear	--	--	--
8 Ski Lane	W-171018-MB-42	GHD	10/18/2017	22	12	7.65	9.50	495	3.46	-116.8	Clear	--	--	--
10 Ski Lane	W-171018-MB-43	GHD	10/18/2017	21	10	7.63	9.38	485	3.12	-96.5	Clear	--	--	--
12 Ski Lane	W-171018-MB-44	GHD	10/18/2017	20	14	7.61	9.68	473	3.07	-83.1	Clear	--	--	--

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Well Address	Sample ID	Sampled By	Date (mm/dd/yyyy)	Purge Time (min)	Flow Rate (gpm)	pH	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	Clarity	QA/QC	QA/QC Sample ID	Notes
14 Ski Lane	W-171018-MB-45	GHD	10/18/2017	20	8	7.66	10.32	550	3.03	-106.3	Clear	--	--	--
16 Ski Lane	W-171018-MB-46	GHD	10/18/2017	21	12	7.74	10.30	467	3.53	-111.1	Clear	--	--	--
1 Thompson Lane	W-171019-MB-70	GHD	10/19/2017	20	10	7.63	9.94	520	2.33	-106.9	Clear	--	--	--
3 Thompson Lane	W-171018-MB-36	GHD	10/18/2017	20	8	7.96	9.58	513	2.31	-72.0	Clear	FD	W-171018-MB-37	Treated Sample
4 Thompson Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled (water was shut off)
1 West Shore Road	W-171016-MB-01	GHD	10/16/2017	20	10	7.50	10.51	735	4.54	-109.2	Clear	--	--	--
2 West Shore Road	W-171018-MB-31	GHD	10/18/2017	20	5	7.53	10.46	599	2.19	-133.9	Clear	--	--	--
3 West Shore Road	W-171017-MB-20	GHD	10/17/2017	20	3	7.50	11.10	476	3.63	-82.0	Clear	--	--	--
4 West Shore Road	W-171017-MB-09	GHD	10/17/2017	20	6	7.40	11.65	651	2.40	-101.5	Clear	--	--	--
5 West Shore Road	W-171017-MB-21	GHD	10/17/2017	20	8	7.58	11.44	492	1.37	-147.2	Clear	--	--	--
6 West Shore Road	W-171017-MB-22	GHD	10/17/2017	20	6	7.46	11.37	454	1.41	-113.7	Clear	--	--	--

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North Oaks, Minnesota

Well Address	Sample ID	Sampled By	Date (mm/dd/yyyy)	Purge Time (min)	Flow Rate (gpm)	pH	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	Clarity	QA/QC	QA/QC Sample ID	Notes
7 West Shore Road	W-171019-MB-58	GHD	10/19/2017	20	3	7.73	12.80	341	3.87	181.6	Clear	--	--	Treated Sample
8 West Shore Road	W-171017-MB-23	GHD	10/17/2017	20	5	7.62	11.34	472	3.69	-132.2	Clear	--	--	--
9 West Shore Road	W-171017-MB-24	GHD	10/17/2017	20	10	7.52	10.61	521	2.61	-119.8	Clear	--	--	--
10 West Shore Road	W-171017-MB-27	GHD	10/17/2017	20	8	7.61	10.96	534	1.88	-111.4	Clear	--	--	--
11 West Shore Road	W-171017-MB-25	GHD	10/17/2017	22	10	7.50	10.97	533	2.44	-116.5	Clear	FD	W-171017-MB-26	Sample collected through dedicated hose (buried).
15 West Shore Road	W-171017-MB-28	GHD	10/17/2017	20	8	7.64	10.61	565	1.98	-112.2	Clear	FB	W-171017-MB-29	--

Notes:

[1] - For Chloride (only)
[2] - For VOCs (only)
DO - Dissolved Oxygen
FD - Field Duplicate
FB - Field Blank
MS/MSD - Matrix Spike/Matrix Spike Duplicate
NM - Not Measured
NR - Not Recorded
ORP - Oxidation Reduction Potential

Table 2

Summary of Detected Compounds
October 2017
Residential Well Sampling Event
North Oaks, Minnesota

Address	Date	QA/QC	Chloride	1,1-Dichloroethane (1,1-DCA)	2,2-Dichloropropane	Dichlorodifluoromethane (CFC-12)	Dichlorofluoromethane (DCFM)
	MDH HBG Basis		--	80 RAA	--	700 HRL	20 RAA
			-- mg/L	µg/L	µg/L	µg/L	µg/L
1 Birch Lane	10/18/2017		7.4	< 0.50	< 0.50	< 0.50	< 0.50
2 Birch Lane	10/18/2017		14.3	< 0.50	< 0.50	< 0.50	< 0.50
3 Birch Lane	10/18/2017		6.9	< 0.50	< 0.50	< 0.50	< 0.50
1 Buffalo Road	10/19/2017		31.5	0.28 J	< 0.50	< 0.50	< 0.50
3 Buffalo Road	10/18/2017		36.5	0.19 J	< 0.50	< 0.50	< 0.50
2 Cardinal	10/16/2017		26.1	< 0.50	< 0.50	< 0.50	< 0.50
4 Cardinal	10/19/2017		0.50	< 0.50	< 0.50	< 0.50	< 0.50
9 Duck Pass Road	10/19/2017		37.3	0.67	< 0.50	0.60	< 0.50
15 Duck Pass Road	10/19/2017		26.3	< 0.50	< 0.50	< 0.50	< 0.50
15 Duck Pass Road	10/19/2017	D	26.4	< 0.50	< 0.50	< 0.50	< 0.50
20 Duck Pass Road	10/19/2017		41.4	0.79	< 0.50	1.0	0.57
24 Duck Pass Road	10/25/2017		7.2	< 0.50	< 0.50	< 0.50	< 0.50
26 Duck Pass Road	10/19/2017		32.2	< 0.50	< 0.50	< 0.50	< 0.50
28 Duck Pass Road	10/19/2017		69.2	< 0.50	< 0.50	< 0.50	< 0.50
1 Eagle Ridge Road	10/18/2017		19.1	< 0.50	< 0.50	< 0.50	< 0.50
1 Eagle Ridge Road	10/18/2017	D	19.1	< 0.50	< 0.50	< 0.50	< 0.50
2 Eagle Ridge Road	10/18/2017		33.3	< 0.50	< 0.50	< 0.50	< 0.50
3 Eagle Ridge Road	10/18/2017		31.2	< 0.50	< 0.50	< 0.50	< 0.50
4 Eagle Ridge Road	10/18/2017		28.2	< 0.50	< 0.50	< 0.50	< 0.50
6 Eagle Ridge Road	10/18/2017		45.5	< 0.50	< 0.50	< 0.50	< 0.50
10 Eagle Ridge Road	10/18/2017		14.8	< 0.50	< 0.50	< 0.50	< 0.50
32 East Oaks Road	10/18/2017		32.4	< 0.50	< 0.50	< 0.50	< 0.50
36 East Oaks Road	10/18/2017		23.2	< 0.50	< 0.50	< 0.50	< 0.50
38 East Oaks Road	10/25/2017		2.1	< 0.50	< 0.50	< 0.50	< 0.50
44 East Oaks Road	10/17/2017		13.2	< 0.50	< 0.50	< 0.50	< 0.50
50 East Oaks Road	10/18/2017		37.5	< 0.50	< 0.50	< 0.50	< 0.50
1 Gadwall	10/19/2017		32.8	< 0.50	< 0.50	< 0.50	< 0.50
2 Gadwall	10/19/2017		29.7	< 0.50	< 0.50	< 0.50	< 0.50
2 Gadwall	10/19/2017	D	29.7	< 0.50	< 0.50	< 0.50	< 0.50

Table 2

Summary of Detected Compounds
October 2017
Residential Well Sampling Event
North Oaks, Minnesota

Address	Date	QA/QC	Chloride	1,1-Dichloroethane (1,1-DCA)	2,2-Dichloropropane	Dichlorodifluoromethane (CFC-12)	Dichlorofluoromethane (DCFM)
	MDH HBG Basis		--	80 RAA	--	700 HRL	20 RAA
			--	µg/L	µg/L	µg/L	µg/L
			mg/L				
3 Gadwall	10/19/2017		25.6	< 0.50	< 0.50	< 0.50	< 0.50
4 Gadwall	10/16/2017		38.2	< 0.50	< 0.50	< 0.50	< 0.50
2 Heron Lane	10/18/2017		17.0	< 0.50	< 0.50	< 0.50	< 0.50
1 Hummingbird Hill	10/25/2017		28.0	< 0.50	< 0.50	< 0.50	< 0.50
3 Mallard Lane	10/16/2017		15.4	< 0.50	< 0.50	< 0.50	< 0.50
5 Mallard Lane	10/19/2017		4.5	< 0.50	< 0.50	< 0.50	< 0.50
6 Mallard Lane	10/19/2017		3.8	< 0.50	< 0.50	< 0.50	< 0.50
7 Mallard Lane	10/19/2017		11.7	< 0.50	< 0.50	< 0.50	< 0.50
1 Poplar Lane	10/17/2017		1.3	< 0.50	< 0.50	< 0.50	< 0.50
3 Poplar Lane	10/17/2017		25.5	< 0.50	< 0.50	< 0.50	< 0.50
4 Poplar Lane	10/17/2017		23.6	< 0.50	< 0.50	< 0.50	< 0.50
6 Poplar Lane	10/17/2017		5.3	< 0.50	< 0.50	< 0.50	< 0.50
8 Poplar Lane	10/17/2017		35.7	< 0.50	< 0.50	< 0.50	< 0.50
8 Poplar Lane	10/17/2017	D	36.5	< 0.50	< 0.50	< 0.50	< 0.50
1 Quail Lane	10/18/2017		27.0	< 0.50	< 0.50	< 0.50	< 0.50
1 Robb Farm Road	10/19/2017		1.2	< 0.50	< 0.50	< 0.50	< 0.50
35 Robb Farm Road	10/17/2017		58.6	< 0.50	< 0.50	< 0.50	< 0.50
37 Robb Farm Road	10/17/2017		8.2	< 0.50	< 0.50	< 0.50	< 0.50
37 Robb Farm Road	10/17/2017	D	8.3	< 0.50	1.0	< 0.50	< 0.50
41 Robb Farm Road	10/17/2017		4.2	< 0.50	< 0.50	< 0.50	< 0.50
43 Robb Farm Road	10/17/2017		69.9	< 0.50	< 0.50	< 0.50	< 0.50
44 Robb Farm Road	10/25/2017		28.9	< 0.50	< 0.50	< 0.50	< 0.50
45 Robb Farm Road	10/17/2017		25.8	< 0.50	< 0.50	< 0.50	< 0.50
6 Ski Lane	10/18/2017		28.6	< 0.50	< 0.50	< 0.50	< 0.50
8 Ski Lane	10/18/2017		26.0	< 0.50	< 0.50	< 0.50	< 0.50
10 Ski Lane	10/18/2017		26.3	< 0.50	< 0.50	< 0.50	< 0.50
12 Ski Lane	10/18/2017		24.6	< 0.50	< 0.50	< 0.50	< 0.50
14 Ski Lane	10/18/2017		39.6	< 0.50	< 0.50	< 0.50	< 0.50
16 Ski Lane	10/18/2017		26.6	< 0.50	< 0.50	< 0.50	< 0.50

Table 2

Summary of Detected Compounds
October 2017
Residential Well Sampling Event
North Oaks, Minnesota

Address	MDH HBG Basis Date	QA/QC	Chloride -- -- mg/L	1,1-Dichloroethane (1,1-DCA) 80 RAA µg/L	2,2-Dichloropropane -- -- µg/L	Dichlorodifluoromethane (CFC-12) 700 HRL µg/L	Dichlorofluoromethane (DCFM) 20 RAA µg/L
1 Thompson Lane	10/19/2017		32.8	< 0.50	< 0.50	< 0.50	< 0.50
3 Thompson Lane	10/18/2017		20.7	< 0.50	< 0.50	< 0.50	< 0.50
3 Thompson Lane	10/18/2017	D	20.7	< 0.50	< 0.50	< 0.50	< 0.50
1 West Shore Road	10/16/2017		38.6	< 0.50	< 0.50	< 0.50	< 0.50
2 West Shore Road	10/18/2017		54.0	< 0.50	< 0.50	< 0.50	< 0.50
3 West Shore Road	10/17/2017		12.4	< 0.50	< 0.50	< 0.50	< 0.50
4 West Shore Road	10/17/2017		50.8	< 0.50	< 0.50	< 0.50	< 0.50
5 West Shore Road	10/17/2017		8.4	< 0.50	< 0.50	< 0.50	< 0.50
6 West Shore Road	10/17/2017		6.5	< 0.50	< 0.50	< 0.50	< 0.50
7 West Shore Road	10/19/2017		8.9	< 0.50	< 0.50	< 0.50	< 0.50
8 West Shore Road	10/17/2017		5.4	< 0.50	< 0.50	< 0.50	< 0.50
9 West Shore Road	10/17/2017		24.0	< 0.50	< 0.50	< 0.50	< 0.50
10 West Shore Road	10/17/2017		29.1	< 0.50	< 0.50	< 0.50	< 0.50
11 West Shore Road	10/17/2017		25.3	< 0.50	< 0.50	< 0.50	< 0.50
11 West Shore Road	10/17/2017	D	25.2	< 0.50	< 0.50	< 0.50	< 0.50
15 West Shore Road	10/17/2017		39.2	< 0.50	< 0.50	< 0.50	< 0.50

Notes:

MDH HBG - Health-Based Guidance (HBG) established by the Minnesota Department of Health (MDH) (Note: if multiple guidance values are available, the lowest value is used for screening purposes)
HRL - Health Risk Limit
RAA - Risk Assessment Advice
-- - HBG not established
D - Duplicate
J - Estimated Result

Attachment A
Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-126333-1
Client Project/Site: 002012, Highway 96 Landfill

For:
GHD Services Inc.
1801 Old Highway 8 NW
Suite 114
St Paul, Minnesota 55112

Attn: Mr. Grant Anderson

Melissa Deyo

Authorized for release by:
11/3/2017 4:46:17 PM

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LINKS

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

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

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

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-126333-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-126333-1

Receipt
The samples were received on 10/23/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.7º C, 2.1º C and 2.2º C.

GC/MS VOA
Method(s) 524.2: The low level laboratory control sample (LLCS) for analytical batch 480-383924 recovered outside control limits for the following analyte: Methylene Chloride. This analyte was biased high in the LLCS and was not detected in the associated samples; therefore, the data have been reported. The following samples were impacted: W-171016-MB-01 (480-126333-1), W-171016-MB-02 (480-126333-2), W-171016-MB-03 (480-126333-3), W-171016-MB-04 (480-126333-4), W-171017-MB-05 (480-126333-5), W-171017-MB-06 (480-126333-6) and W-171017-MB-07 (480-126333-7).

Method(s) 524.2: Due to the specific client requirements of the MDL/RL, the recovery of Total Xylenes was below the RL, therefore could not be calculated out in the low level laboratory control spike (LLCS). The final recovery for Total Xylenes was 1.057ug/L in the LLCS. The following samples are impacted: W-171016-MB-01 (480-126333-1), W-171016-MB-02 (480-126333-2), W-171016-MB-03 (480-126333-3), W-171016-MB-04 (480-126333-4), W-171017-MB-05 (480-126333-5), W-171017-MB-06 (480-126333-6) and W-171017-MB-07 (480-126333-7).

Method(s) 524.2: The low level laboratory control sample (LLCS) for analytical batch 480-384183 recovered outside control limits for the following analyte: Methylene Chloride. This analyte was biased high in the LLCS and was not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: W-171017-MB-08 (480-126333-8), W-171017-MB-09 (480-126333-9), W-171017-MB-10 (480-126333-10), W-171017-MB-11 (480-126333-11), W-171017-MB-12 (480-126333-12), W-171017-MB-13 (480-126333-13), W-171017-MB-14 (480-126333-14), W-171017-MB-15 (480-126333-15), W-171017-MB-16 (480-126333-16), W-171017-MB-17 (480-126333-17), W-171017-MB-18 (480-126333-18), W-171017-MB-19 (480-126333-19) and W-171017-MB-20 (480-126333-20).

Method(s) 524.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-384183 were outside control limits for Carbon disulfide, 3-Chloro-1-Propene, and Chloroethane. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The following samples are impacted: W-171017-MB-11 (480-126333-11[MS]) and W-171017-MB-11 (480-126333-11[MSD]).

Method(s) 524.2: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for analytical batch 480-384183 was outside control limits for 3-Chloro-1-Propene, Carbon Tetrachloride and Chloroethane. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) 524.2: The laboratory control sample (LCS) for analytical batch 480-384427 recovered outside control limits for the following analyte: Acetone. This analyte was biased high in the LCS and was not detected above the reporting limit in the associated samples; therefore, the data have been reported. THe following samples are impacted: W-171017-MB-21 (480-126333-21), W-171017-MB-22 (480-126333-22), W-171017-MB-23 (480-126333-23), W-171017-MB-24 (480-126333-24), W-171017-MB-25 (480-126333-25), W-171017-MB-26 (480-126333-26), W-171017-MB-27 (480-126333-27), W-171017-MB-28 (480-126333-28), W-171017-MB-29 (480-126333-29), W-171017-MB-30 (480-126333-30), W-171018-MB-31 (480-126333-31), W-171018-MB-32 (480-126333-32), W-171018-MB-33 (480-126333-33), W-171018-MB-34 (480-126333-34), W-171018-MB-35 (480-126333-35) and W-171018-MB-36 (480-126333-36).

Method(s) 524.2: The low level laboratory control sample (LLCS) for analytical batch 480-384427 recovered outside control limits for the several analytes. These analytes were biased high in the LLCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: W-171017-MB-21 (480-126333-21), W-171017-MB-22 (480-126333-22), W-171017-MB-23 (480-126333-23), W-171017-MB-24 (480-126333-24), W-171017-MB-25 (480-126333-25), W-171017-MB-26 (480-126333-26), W-171017-MB-27 (480-126333-27), W-171017-MB-28 (480-126333-28), W-171017-MB-29 (480-126333-29), W-171017-MB-30 (480-126333-30), W-171018-MB-31 (480-126333-31), W-171018-MB-32 (480-126333-32), W-171018-MB-33 (480-126333-33), W-171018-MB-34 (480-126333-34), W-171018-MB-35 (480-126333-35) and W-171018-MB-36 (480-126333-36).

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Laboratory: TestAmerica Buffalo (Continued)

Method(s) 524.2: Due to the specific client requirements of the MDL/RL, the recovery of Total Xylenes was below the RL, therefore could not be calculated out in the low level laboratory control spike (LLCS). The final recovery for Total Xylenes was 1.044ug/L in the LLCS. The following samples are impacted: W-171017-MB-08 (480-126333-8), W-171017-MB-09 (480-126333-9), W-171017-MB-10 (480-126333-10), W-171017-MB-11 (480-126333-11), W-171017-MB-12 (480-126333-12), W-171017-MB-13 (480-126333-13), W-171017-MB-14 (480-126333-14), W-171017-MB-15 (480-126333-15), W-171017-MB-16 (480-126333-16), W-171017-MB-17 (480-126333-17), W-171017-MB-18 (480-126333-18), W-171017-MB-19 (480-126333-19) and W-171017-MB-20 (480-126333-20).

Method(s) 524.2: Due to the specific client requirements of the MDL/RL, the recovery of Total Xylenes was below the RL, therefore could not be calculated out in the low level laboratory control spike (LLCS). The final recovery for Total Xylenes was 1.43ug/L in the LLCS. The following samples are impacted: W-171017-MB-21 (480-126333-21), W-171017-MB-22 (480-126333-22), W-171017-MB-23 (480-126333-23), W-171017-MB-24 (480-126333-24), W-171017-MB-25 (480-126333-25), W-171017-MB-26 (480-126333-26), W-171017-MB-27 (480-126333-27), W-171017-MB-28 (480-126333-28), W-171017-MB-29 (480-126333-29), W-171017-MB-30 (480-126333-30), W-171018-MB-31 (480-126333-31), W-171018-MB-32 (480-126333-32), W-171018-MB-33 (480-126333-33), W-171018-MB-34 (480-126333-34), W-171018-MB-35 (480-126333-35) and W-171018-MB-36 (480-126333-36).

Method(s) 524.2: The continuing calibration verification (CCV/LCS/LCSD/MS/MSD) associated with batch 480-384565 recovered outside acceptance criteria, low biased, for 3-Chloro-1-Propene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: W-171018-MB-37 (480-126333-37), W-171018-MB-38 (480-126333-38), W-171018-MB-39 (480-126333-39), W-171018-MB-40 (480-126333-40), W-171018-MB-41 (480-126333-41), W-171018-MB-42 (480-126333-42) and W-171018-MB-43 (480-126333-43).

Method(s) 524.2: The continuing calibration verification (CCV) and laboratory control sample duplicate (LCSD) associated with batch 480-384694 recovered outside acceptance criteria, low biased, for Allyl chloride. The target analyte was detected in the low level laboratory control sample (LLCS). Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: W-171018-MB-44 (480-126333-44), W-171018-MB-45 (480-126333-45), W-171018-MB-46 (480-126333-46), W-171018-MB-47 (480-126333-47), W-171018-MB-48 (480-126333-48), W-171018-MB-49 (480-126333-49), W-171018-MB-50 (480-126333-50), W-171018-MB-51 (480-126333-51), W-171018-MB-52 (480-126333-52), W-171018-MB-53 (480-126333-53), W-171018-MB-54 (480-126333-54), W-171018-MB-55 (480-126333-55), W-171018-MB-56 (480-126333-56) and W-171018-MB-57 (480-126333-57).

Method(s) 524.2: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 480-384694 recovered outside control limits for the following analyte: Acetone. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: W-171018-MB-44 (480-126333-44), W-171018-MB-45 (480-126333-45), W-171018-MB-46 (480-126333-46), W-171018-MB-47 (480-126333-47), W-171018-MB-48 (480-126333-48), W-171018-MB-49 (480-126333-49), W-171018-MB-50 (480-126333-50), W-171018-MB-51 (480-126333-51), W-171018-MB-52 (480-126333-52), W-171018-MB-53 (480-126333-53), W-171018-MB-54 (480-126333-54), W-171018-MB-55 (480-126333-55), W-171018-MB-56 (480-126333-56) and W-171018-MB-57 (480-126333-57).

Method(s) 524.2: The low level laboratory control sample (LLCS) for analytical batch 480-384694 recovered outside control limits for several analytes. These analytes were biased high in the LLCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: W-171018-MB-44 (480-126333-44), W-171018-MB-45 (480-126333-45), W-171018-MB-46 (480-126333-46), W-171018-MB-47 (480-126333-47), W-171018-MB-48 (480-126333-48), W-171018-MB-49 (480-126333-49), W-171018-MB-50 (480-126333-50), W-171018-MB-51 (480-126333-51), W-171018-MB-52 (480-126333-52), W-171018-MB-53 (480-126333-53), W-171018-MB-54 (480-126333-54), W-171018-MB-55 (480-126333-55), W-171018-MB-56 (480-126333-56) and W-171018-MB-57 (480-126333-57).

Method(s) 524.2: Due to the specific client requirements of the MDL/RL, the recovery of Total Xylenes was below the MDL, therefore could not be calculated out in the low level laboratory control spike (LLCS). The final recovery for Total Xylenes was 1.454ug/L in the LLCS. The following samples are impacted: W-171018-MB-44 (480-126333-44), W-171018-MB-45 (480-126333-45), W-171018-MB-46 (480-126333-46), W-171018-MB-47 (480-126333-47), W-171018-MB-48 (480-126333-48), W-171018-MB-49 (480-126333-49), W-171018-MB-50 (480-126333-50), W-171018-MB-51 (480-126333-51), W-171018-MB-52 (480-126333-52), W-171018-MB-53 (480-126333-53), W-171018-MB-54 (480-126333-54), W-171018-MB-55 (480-126333-55), W-171018-MB-56 (480-126333-56) and W-171018-MB-57 (480-126333-57)

Method(s) 524.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-384694 were outside control

Job ID: 480-126333-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits. The following samples are impacted: W-171018-MB-54 (480-126333-54[MS]) and W-171018-MB-54 (480-126333-54[MSD]).

Method(s) 524.2: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 480-384694 recovered outside control limits for the following analyte: Allyl chloride. The following samples are affected: W-171018-MB-44 (480-126333-44), W-171018-MB-45 (480-126333-45), W-171018-MB-46 (480-126333-46), W-171018-MB-47 (480-126333-47), W-171018-MB-48 (480-126333-48), W-171018-MB-49 (480-126333-49), W-171018-MB-50 (480-126333-50), W-171018-MB-51 (480-126333-51), W-171018-MB-52 (480-126333-52), W-171018-MB-53 (480-126333-53), W-171018-MB-54 (480-126333-54), W-171018-MB-55 (480-126333-55), W-171018-MB-56 (480-126333-56) and W-171018-MB-57 (480-126333-57).

Method(s) 524.2: The low level laboratory control sample (LLCS) for analytical batch 480-384754 recovered outside control limits for the following analyte: Methylene Chloride. These analytes were biased high in the LLCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: W-171019-MB-58 (480-126333-58), W-171019-MB-59 (480-126333-59), W-171019-MB-60 (480-126333-60), W-171019-MB-61 (480-126333-61), W-171019-MB-62 (480-126333-62), W-171019-MB-63 (480-126333-63), W-171019-MB-64 (480-126333-64) and W-171019-MB-65 (480-126333-65).

Method(s) 524.2: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 480-384754 recovered outside control limits for the following analytes: 3-Chloro-1-propene.The following samples are impacted: W-171019-MB-58 (480-126333-58), W-171019-MB-59 (480-126333-59), W-171019-MB-60 (480-126333-60), W-171019-MB-61 (480-126333-61), W-171019-MB-62 (480-126333-62), W-171019-MB-63 (480-126333-63), W-171019-MB-64 (480-126333-64) and W-171019-MB-65 (480-126333-65)

Method(s) 524.2: The continuing calibration verification (CCV) and laboratory control sample (LCS) associated with batch 480-384754 recovered outside acceptance criteria, low biased, for 3-Chloro-1-Propene. The target analyte was detected in the low level laboratory control sample (LLCS). Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: W-171019-MB-58 (480-126333-58), W-171019-MB-59 (480-126333-59), W-171019-MB-60 (480-126333-60), W-171019-MB-61 (480-126333-61), W-171019-MB-62 (480-126333-62), W-171019-MB-63 (480-126333-63), W-171019-MB-64 (480-126333-64) and W-171019-MB-65 (480-126333-65).

Method(s) 524.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-384565 were outside control limits.

Method(s) 524.2: Due to the specific client requirements of the MDL/RL, the recovery of Total Xylenes was below the MDL, therefore could not be calculated out in the low level laboratory control spike (LLCS). The final recovery for Total Xylenes was 0.0.525ug/L in the LLCS. The following samples are impacted: W-171018-MB-37 (480-126333-37), W-171018-MB-38 (480-126333-38), W-171018-MB-39 (480-126333-39), W-171018-MB-40 (480-126333-40), W-171018-MB-41 (480-126333-41), W-171018-MB-42 (480-126333-42) and W-171018-MB-43 (480-126333-43)

Method(s) 524.2: Due to the specific client requirements of the MDL/RL, the recovery of Total Xylenes was below the MDL, therefore could not be calculated out in the low level laboratory control spike (LLCS). The final recovery for Total Xylenes was 1.063ug/L in the LLCS. The following samples are impacted: W-171019-MB-58 (480-126333-58), W-171019-MB-59 (480-126333-59), W-171019-MB-60 (480-126333-60), W-171019-MB-61 (480-126333-61), W-171019-MB-62 (480-126333-62), W-171019-MB-63 (480-126333-63), W-171019-MB-64 (480-126333-64) and W-171019-MB-65 (480-126333-65)

Method(s) 524.2: Due to the specific client requirements of the MDL/RL, the recovery of Total Xylenes and Total Trihalomethanes were below the MDL, therefore could not be calculated out in the low level laboratory control spike (LLCS). The final recovery for Total Xylenes was 0.922ug/L and Total Trihalomethanes was 1.929 in the LLCS. The following samples are impacted: W-171019-MB-66 (480-126333-66), W-171019-MB-67 (480-126333-67), W-171019-MB-68 (480-126333-68), W-171019-MB-69 (480-126333-69), W-171019-MB-70 (480-126333-70), W-171019-MB-71 (480-126333-71), W-171019-MB-72 (480-126333-72), W-171019-MB-73 (480-126333-73), W-171019-MB-74 (480-126333-74), W-171019-MB-75 (480-126333-75), W-171019-MB-76 (480-126333-76), W-171019-MB-77 (480-126333-77) and TRIP BLANK (480-126333-78).

Method(s) 524.2: The continuing calibration verification (CCV) associated with batch 480-384903 recovered outside acceptance criteria, low biased, for Allyl chloride. A low level laboratory control sample (LLCS) was analyzed, and the target analyte was detected. Since the

Job ID: 480-126333-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: W-171019-MB-66 (480-126333-66), W-171019-MB-67 (480-126333-67), W-171019-MB-68 (480-126333-68), W-171019-MB-69 (480-126333-69), W-171019-MB-70 (480-126333-70), W-171019-MB-71 (480-126333-71), W-171019-MB-72 (480-126333-72), W-171019-MB-73 (480-126333-73), W-171019-MB-74 (480-126333-74), W-171019-MB-75 (480-126333-75), W-171019-MB-76 (480-126333-76), W-171019-MB-77 (480-126333-77) and TRIP BLANK (480-126333-78).

Method(s) 524.2: The continuing calibration verification (CCV) associated with batch 480-384903 recovered above the upper control limit for Acetone. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: W-171019-MB-66 (480-126333-66), W-171019-MB-67 (480-126333-67), W-171019-MB-68 (480-126333-68), W-171019-MB-69 (480-126333-69), W-171019-MB-70 (480-126333-70), W-171019-MB-71 (480-126333-71), W-171019-MB-72 (480-126333-72), W-171019-MB-73 (480-126333-73), W-171019-MB-74 (480-126333-74), W-171019-MB-75 (480-126333-75), W-171019-MB-76 (480-126333-76), W-171019-MB-77 (480-126333-77) and TRIP BLANK (480-126333-78).

Method(s) 524.2: The matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 480-384903 exceeded control limits for the following analyte(s): trans-1,4-Dichloro-2-butene. Note that this analyte is a known poor performer when analyzed using this 8260 therefore; the data has been reported. The following samples are impacted: W-171019-MB-73 (480-126333-73[MS]) and W-171019-MB-73 (480-126333-73[MSD]).

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

HPLC/IC

Method(s) 300.0: The following samples was reported with elevated reporting limits for all analytes: W-171017-MB-23 (480-126333-23), W-171017-MB-24 (480-126333-24), W-171017-MB-25 (480-126333-25), W-171017-MB-26 (480-126333-26), W-171017-MB-27 (480-126333-27), W-171017-MB-28 (480-126333-28), W-171018-MB-32 (480-126333-32), W-171018-MB-33 (480-126333-33), W-171018-MB-34 (480-126333-34), W-171018-MB-35 (480-126333-35), W-171018-MB-36 (480-126333-36), W-171018-MB-37 (480-126333-37), W-171018-MB-38 (480-126333-38), W-171018-MB-40 (480-126333-40), W-171018-MB-41 (480-126333-41), W-171018-MB-42 (480-126333-42), W-171018-MB-43 (480-126333-43), W-171018-MB-44 (480-126333-44), W-171018-MB-45 (480-126333-45), W-171018-MB-46 (480-126333-46), W-171018-MB-47 (480-126333-47) and W-171018-MB-54 (480-126333-54). The sample was analyzed at a dilution based on screening results.

Method(s) 300.0: The following samples was reported with elevated reporting limits for all analytes: W-171018-MB-48 (480-126333-48), W-171018-MB-49 (480-126333-49), W-171018-MB-50 (480-126333-50), W-171018-MB-51 (480-126333-51), W-171018-MB-53 (480-126333-53), W-171018-MB-55 (480-126333-55), W-171018-MB-56 (480-126333-56), W-171018-MB-57 (480-126333-57), W-171019-MB-58 (480-126333-58), W-171019-MB-59 (480-126333-59), W-171019-MB-60 (480-126333-60), W-171019-MB-61 (480-126333-61), W-171019-MB-62 (480-126333-62), W-171019-MB-63 (480-126333-63), W-171019-MB-65 (480-126333-65), W-171019-MB-66 (480-126333-66), W-171019-MB-67 (480-126333-67), W-171019-MB-68 (480-126333-68), W-171019-MB-69 (480-126333-69), W-171019-MB-70 (480-126333-70), W-171019-MB-71 (480-126333-71), W-171019-MB-73 (480-126333-73), W-171019-MB-74 (480-126333-74), W-171019-MB-75 (480-126333-75) and W-171019-MB-76 (480-126333-76). The sample was analyzed at a dilution based on screening results.

Method(s) 300.0: The following samples was reported with elevated reporting limits for all analytes: W-171017-MB-19 (480-126333-19), W-171017-MB-20 (480-126333-20), W-171017-MB-21 (480-126333-21) and W-171017-MB-22 (480-126333-22). The sample was analyzed at a dilution based on screening results.

Method(s) 300.0: The following samples was reported with elevated reporting limits for all analytes: W-171016-MB-01 (480-126333-1), W-171016-MB-02 (480-126333-2), W-171016-MB-03 (480-126333-3), W-171016-MB-04 (480-126333-4), W-171017-MB-05 (480-126333-5), W-171017-MB-06 (480-126333-6), W-171017-MB-07 (480-126333-7), W-171017-MB-08 (480-126333-8), W-171017-MB-11 (480-126333-11), W-171017-MB-12 (480-126333-12), W-171017-MB-13 (480-126333-13), W-171017-MB-14 (480-126333-14), W-171017-MB-15 (480-126333-15), W-171017-MB-17 (480-126333-17) and W-171017-MB-18 (480-126333-18). The sample was analyzed at a dilution based on screening results.

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

Job ID: 480-126333-2

Laboratory: TestAmerica Buffalo

Job ID: 480-126333-2 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Narrative

Job Narrative
480-126333-2

Receipt
The samples were received on 10/23/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.7º C, 2.1º C and 2.2º C.

GC/MS VOA
Method(s) 524.2: The low level laboratory control sample (LLCS) for analytical batch 480-384427 recovered outside control limits for the several analytes. These analytes were biased high in the LLCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: W-171017-MB-21 (480-126333-21), W-171017-MB-22 (480-126333-22), W-171017-MB-23 (480-126333-23), W-171017-MB-24 (480-126333-24), W-171017-MB-25 (480-126333-25), W-171017-MB-26 (480-126333-26), W-171017-MB-27 (480-126333-27), W-171017-MB-28 (480-126333-28), W-171017-MB-29 (480-126333-29), W-171017-MB-30 (480-126333-30), W-171018-MB-31 (480-126333-31), W-171018-MB-32 (480-126333-32), W-171018-MB-33 (480-126333-33), W-171018-MB-34 (480-126333-34), W-171018-MB-35 (480-126333-35) and W-171018-MB-36 (480-126333-36).

Method(s) 524.2: The low level laboratory control sample (LLCS) for analytical batch 480-384694 recovered outside control limits for several analytes. These analytes were biased high in the LLCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: W-171018-MB-44 (480-126333-44), W-171018-MB-45 (480-126333-45), W-171018-MB-46 (480-126333-46), W-171018-MB-47 (480-126333-47), W-171018-MB-48 (480-126333-48), W-171018-MB-49 (480-126333-49), W-171018-MB-50 (480-126333-50), W-171018-MB-51 (480-126333-51), W-171018-MB-52 (480-126333-52), W-171018-MB-53 (480-126333-53), W-171018-MB-54 (480-126333-54), W-171018-MB-55 (480-126333-55), W-171018-MB-56 (480-126333-56) and W-171018-MB-57 (480-126333-57).

Method(s) 524.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-384565 were outside control limits.

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

Detection Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171016-MB-01 — Lab Sample ID: 480-126333-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	38.6		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171016-MB-02 — Lab Sample ID: 480-126333-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26.1		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171016-MB-03 — Lab Sample ID: 480-126333-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	38.2		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171016-MB-04 — Lab Sample ID: 480-126333-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15.4		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-05 — Lab Sample ID: 480-126333-5

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	35.7		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-06 — Lab Sample ID: 480-126333-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	36.5		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-07 — Lab Sample ID: 480-126333-7

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.3		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-08 — Lab Sample ID: 480-126333-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	23.6		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-09 — Lab Sample ID: 480-126333-9

No Detections.

Client Sample ID: W-171017-MB-10 — Lab Sample ID: 480-126333-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.3		0.50	0.50	mg/L	1		300.0	Total/NA

Client Sample ID: W-171017-MB-11 — Lab Sample ID: 480-126333-11

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25.5		1.0	1.0	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-12 — Lab Sample ID: 480-126333-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	58.6		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-13 — Lab Sample ID: 480-126333-13

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.2		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-14 — Lab Sample ID: 480-126333-14

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
2,2-Dichloropropane	1.0		0.50	0.50	ug/L	1		524.2	Total/NA
Chloride	8.3		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-15 — Lab Sample ID: 480-126333-15

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.2		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-16 — Lab Sample ID: 480-126333-16

No Detections.

Client Sample ID: W-171017-MB-17 — Lab Sample ID: 480-126333-17

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	69.9		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-18 — Lab Sample ID: 480-126333-18

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25.8		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-19 — Lab Sample ID: 480-126333-19

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	50.8		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-20 — Lab Sample ID: 480-126333-20

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12.4		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-21 — Lab Sample ID: 480-126333-21

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.4		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-22 — Lab Sample ID: 480-126333-22

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.5		1.0	1.0	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-23 — Lab Sample ID: 480-126333-23

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.4		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-24 — Lab Sample ID: 480-126333-24

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24.0		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-25 — Lab Sample ID: 480-126333-25

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25.3		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-26 — Lab Sample ID: 480-126333-26

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25.2		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-27 — Lab Sample ID: 480-126333-27

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	29.1		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-28 — Lab Sample ID: 480-126333-28

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	39.2		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171017-MB-29 — Lab Sample ID: 480-126333-29

No Detections.

Client Sample ID: W-171017-MB-30 — Lab Sample ID: 480-126333-30

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13.2		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-31 — Lab Sample ID: 480-126333-31

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	54.0		0.50	0.50	mg/L	1		300.0	Total/NA

Client Sample ID: W-171018-MB-32 — Lab Sample ID: 480-126333-32

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17.0		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-33 — Lab Sample ID: 480-126333-33

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14.3		1.0	1.0	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-34 — Lab Sample ID: 480-126333-34

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.9		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-35 — Lab Sample ID: 480-126333-35

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.4		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-36 — Lab Sample ID: 480-126333-36

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20.7		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-37 — Lab Sample ID: 480-126333-37

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20.7		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-38 — Lab Sample ID: 480-126333-38

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	27.0		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-39 — Lab Sample ID: 480-126333-39

No Detections.

Client Sample ID: W-171018-MB-40 — Lab Sample ID: 480-126333-40

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	37.5		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-41 — Lab Sample ID: 480-126333-41

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28.6		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-42 — Lab Sample ID: 480-126333-42

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26.0		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-43 — Lab Sample ID: 480-126333-43

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26.3		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-44 — Lab Sample ID: 480-126333-44

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24.6		1.0	1.0	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-45 — Lab Sample ID: 480-126333-45

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	39.6		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-46 — Lab Sample ID: 480-126333-46

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26.6		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-47 — Lab Sample ID: 480-126333-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.19	J *	0.50	0.18	ug/L	1		524.2	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	36.5		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-48 — Lab Sample ID: 480-126333-48

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	33.3		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-49 — Lab Sample ID: 480-126333-49

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19.1		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-50 — Lab Sample ID: 480-126333-50

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19.1		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-51 — Lab Sample ID: 480-126333-51

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	31.2		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-52 — Lab Sample ID: 480-126333-52

No Detections.

Client Sample ID: W-171018-MB-53 — Lab Sample ID: 480-126333-53

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28.2		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-54 — Lab Sample ID: 480-126333-54

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	45.5		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-55 — Lab Sample ID: 480-126333-55

This Detection Summary does not include radiochemical test results.

Client Sample ID: W-171018-MB-55 (Continued) — Lab Sample ID: 480-126333-55

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14.8		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-56 — Lab Sample ID: 480-126333-56

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	23.2		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171018-MB-57 — Lab Sample ID: 480-126333-57

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	32.4		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-58 — Lab Sample ID: 480-126333-58

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.9		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-59 — Lab Sample ID: 480-126333-59

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25.6		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-60 — Lab Sample ID: 480-126333-60

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	32.8		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-61 — Lab Sample ID: 480-126333-61

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	29.7		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-62 — Lab Sample ID: 480-126333-62

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	29.7		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-63 — Lab Sample ID: 480-126333-63

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	69.2		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-64 — Lab Sample ID: 480-126333-64

No Detections.

Client Sample ID: W-171019-MB-65 — Lab Sample ID: 480-126333-65

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	32.2		1.0	1.0	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-66 — Lab Sample ID: 480-126333-66

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.79		0.50	0.18	ug/L	1		524.2	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.0		0.50	0.50	ug/L	1		524.2	Total/NA
Dichlorofluoromethane	0.57		0.50	0.50	ug/L	1		524.2	Total/NA
Chloride	41.4		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-67 — Lab Sample ID: 480-126333-67

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.67		0.50	0.18	ug/L	1		524.2	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.60		0.50	0.50	ug/L	1		524.2	Total/NA
Chloride	37.3		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-68 — Lab Sample ID: 480-126333-68

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.8		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-69 — Lab Sample ID: 480-126333-69

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.2		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-70 — Lab Sample ID: 480-126333-70

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	32.8		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-71 — Lab Sample ID: 480-126333-71

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.28	J	0.50	0.18	ug/L	1		524.2	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	31.5		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-72 — Lab Sample ID: 480-126333-72

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.50		0.50	0.50	mg/L	1		300.0	Total/NA

Client Sample ID: W-171019-MB-73 — Lab Sample ID: 480-126333-73

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26.3		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-74 — Lab Sample ID: 480-126333-74

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26.4		1.0	1.0	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-75 — Lab Sample ID: 480-126333-75

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11.7		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-76 — Lab Sample ID: 480-126333-76

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.5		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171019-MB-77 — Lab Sample ID: 480-126333-77

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-126333-78

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171016-MB-01

Date Collected: 10/16/17 14:30
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-1

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/26/17 19:51	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/26/17 19:51	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/26/17 19:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
2-Butanone (MEK)	ND		10	10	ug/L			10/26/17 19:51	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
2-Hexanone	ND		10	10	ug/L			10/26/17 19:51	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/26/17 19:51	1
Acetone	ND		10	10	ug/L			10/26/17 19:51	1
Acrylonitrile	ND		10	10	ug/L			10/26/17 19:51	1
Allyl chloride	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Benzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Bromobenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Bromoform	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Bromomethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Chloroethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Chloroform	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Chloromethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Dibromomethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171016-MB-01

Lab Sample ID: 480-126333-1

Date Collected: 10/16/17 14:30
Matrix: Water
Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Ethyl ether	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Iodomethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/26/17 19:51	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/26/17 19:51	1
Naphthalene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
o-Xylene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Styrene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
t-Butanol	ND		10	10	ug/L			10/26/17 19:51	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Toluene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 19:51	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/26/17 19:51	1
Trichloroethene	ND		0.20	0.20	ug/L			10/26/17 19:51	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 19:51	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/26/17 19:51	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/26/17 19:51	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/26/17 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/26/17 19:51*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/26/17 19:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.6**		1.0	1.0	mg/L			11/02/17 01:49	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171016-MB-02

Date Collected: 10/16/17 15:00
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-2

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/26/17 20:21	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/26/17 20:21	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/26/17 20:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
2-Butanone (MEK)	ND		10	10	ug/L			10/26/17 20:21	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
2-Hexanone	ND		10	10	ug/L			10/26/17 20:21	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/26/17 20:21	1
Acetone	ND		10	10	ug/L			10/26/17 20:21	1
Acrylonitrile	ND		10	10	ug/L			10/26/17 20:21	1
Allyl chloride	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Benzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Bromobenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Bromoform	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Bromomethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Chloroethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Chloroform	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Chloromethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Dibromomethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1

Client Sample ID: W-171016-MB-02

Lab Sample ID: 480-126333-2

Date Collected: 10/16/17 15:00

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Ethyl ether	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Iodomethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/26/17 20:21	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/26/17 20:21	1
Naphthalene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
o-Xylene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Styrene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
t-Butanol	ND		10	10	ug/L			10/26/17 20:21	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Toluene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 20:21	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/26/17 20:21	1
Trichloroethene	ND		0.20	0.20	ug/L			10/26/17 20:21	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 20:21	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/26/17 20:21	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/26/17 20:21	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/26/17 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/26/17 20:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/26/17 20:21*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.1**		1.0	1.0	mg/L			11/02/17 02:04	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171016-MB-03

Date Collected: 10/16/17 15:25
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-3

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/26/17 20:51	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/26/17 20:51	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/26/17 20:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
2-Butanone (MEK)	ND		10	10	ug/L			10/26/17 20:51	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
2-Hexanone	ND		10	10	ug/L			10/26/17 20:51	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/26/17 20:51	1
Acetone	ND		10	10	ug/L			10/26/17 20:51	1
Acrylonitrile	ND		10	10	ug/L			10/26/17 20:51	1
Allyl chloride	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Benzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Bromobenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Bromoform	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Bromomethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Chloroethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Chloroform	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Chloromethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Dibromomethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1

Client Sample ID: W-171016-MB-03

Lab Sample ID: 480-126333-3

Date Collected: 10/16/17 15:25

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Ethyl ether	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Iodomethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/26/17 20:51	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/26/17 20:51	1
Naphthalene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
o-Xylene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Styrene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
t-Butanol	ND		10	10	ug/L			10/26/17 20:51	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Toluene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 20:51	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/26/17 20:51	1
Trichloroethene	ND		0.20	0.20	ug/L			10/26/17 20:51	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 20:51	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/26/17 20:51	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/26/17 20:51	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/26/17 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*10/26/17 20:51*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/26/17 20:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.2**		1.0	1.0	mg/L			11/02/17 02:18	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171016-MB-04

Date Collected: 10/16/17 15:52
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-4

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/26/17 21:22	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/26/17 21:22	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/26/17 21:22	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
2-Butanone (MEK)	ND		10	10	ug/L			10/26/17 21:22	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
2-Hexanone	ND		10	10	ug/L			10/26/17 21:22	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/26/17 21:22	1
Acetone	ND		10	10	ug/L			10/26/17 21:22	1
Acrylonitrile	ND		10	10	ug/L			10/26/17 21:22	1
Allyl chloride	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Benzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Bromobenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Bromoform	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Bromomethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Chloroethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Chloroform	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Chloromethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Dibromomethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1

Client Sample ID: W-171016-MB-04

Lab Sample ID: 480-126333-4

Date Collected: 10/16/17 15:52

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Ethyl ether	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Iodomethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/26/17 21:22	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/26/17 21:22	1
Naphthalene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
o-Xylene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Styrene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
t-Butanol	ND		10	10	ug/L			10/26/17 21:22	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Toluene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 21:22	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/26/17 21:22	1
Trichloroethene	ND		0.20	0.20	ug/L			10/26/17 21:22	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 21:22	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/26/17 21:22	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/26/17 21:22	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/26/17 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/26/17 21:22*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/26/17 21:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.4**		1.0	1.0	mg/L			11/02/17 02:33	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-05

Lab Sample ID: 480-126333-5

Date Collected: 10/17/17 09:54
Matrix: Water
Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/26/17 21:52	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/26/17 21:52	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/26/17 21:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
2-Butanone (MEK)	ND		10	10	ug/L			10/26/17 21:52	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
2-Hexanone	ND		10	10	ug/L			10/26/17 21:52	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/26/17 21:52	1
Acetone	ND		10	10	ug/L			10/26/17 21:52	1
Acrylonitrile	ND		10	10	ug/L			10/26/17 21:52	1
Allyl chloride	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Benzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Bromobenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Bromoform	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Bromomethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Chloroethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Chloroform	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Chloromethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Dibromomethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1

Client Sample ID: W-171017-MB-05

Lab Sample ID: 480-126333-5

Date Collected: 10/17/17 09:54

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Ethyl ether	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Iodomethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/26/17 21:52	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/26/17 21:52	1
Naphthalene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
o-Xylene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Styrene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
t-Butanol	ND		10	10	ug/L			10/26/17 21:52	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Toluene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 21:52	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/26/17 21:52	1
Trichloroethene	ND		0.20	0.20	ug/L			10/26/17 21:52	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 21:52	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/26/17 21:52	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/26/17 21:52	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/26/17 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/26/17 21:52*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/26/17 21:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.7**		1.0	1.0	mg/L			11/02/17 02:47	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-06

Lab Sample ID: 480-126333-6

Date Collected: 10/17/17 09:55
Matrix: Water
Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/26/17 22:22	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/26/17 22:22	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/26/17 22:22	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
2-Butanone (MEK)	ND		10	10	ug/L			10/26/17 22:22	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
2-Hexanone	ND		10	10	ug/L			10/26/17 22:22	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/26/17 22:22	1
Acetone	ND		10	10	ug/L			10/26/17 22:22	1
Acrylonitrile	ND		10	10	ug/L			10/26/17 22:22	1
Allyl chloride	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Benzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Bromobenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Bromoform	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Bromomethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Chloroethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Chloroform	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Chloromethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Dibromomethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1

Client Sample ID: W-171017-MB-06

Lab Sample ID: 480-126333-6

Date Collected: 10/17/17 09:55

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Ethyl ether	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Iodomethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/26/17 22:22	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/26/17 22:22	1
Naphthalene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
o-Xylene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Styrene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
t-Butanol	ND		10	10	ug/L			10/26/17 22:22	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Toluene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 22:22	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/26/17 22:22	1
Trichloroethene	ND		0.20	0.20	ug/L			10/26/17 22:22	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 22:22	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/26/17 22:22	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/26/17 22:22	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/26/17 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/26/17 22:22*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/26/17 22:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.5**		1.0	1.0	mg/L			11/02/17 08:23	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-07

Date Collected: 10/17/17 10:00
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-7

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/26/17 22:52	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/26/17 22:52	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/26/17 22:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
2-Butanone (MEK)	ND		10	10	ug/L			10/26/17 22:52	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
2-Hexanone	ND		10	10	ug/L			10/26/17 22:52	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/26/17 22:52	1
Acetone	ND		10	10	ug/L			10/26/17 22:52	1
Acrylonitrile	ND		10	10	ug/L			10/26/17 22:52	1
Allyl chloride	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Benzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Bromobenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Bromoform	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Bromomethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Chloroethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Chloroform	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Chloromethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Dibromomethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1

Client Sample ID: W-171017-MB-07

Lab Sample ID: 480-126333-7

Date Collected: 10/17/17 10:00

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Ethyl ether	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Iodomethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/26/17 22:52	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/26/17 22:52	1
Naphthalene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
o-Xylene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Styrene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
t-Butanol	ND		10	10	ug/L			10/26/17 22:52	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Toluene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 22:52	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/26/17 22:52	1
Trichloroethene	ND		0.20	0.20	ug/L			10/26/17 22:52	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 22:52	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/26/17 22:52	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/26/17 22:52	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/26/17 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*10/26/17 22:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/26/17 22:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.3**		1.0	1.0	mg/L			11/02/17 08:37	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-08

Lab Sample ID: 480-126333-8

Date Collected: 10/17/17 10:06
Date Received: 10/23/17 09:30

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 16:00	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 16:00	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 16:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 16:00	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
2-Hexanone	ND		10	10	ug/L			10/27/17 16:00	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 16:00	1
Acetone	ND		10	10	ug/L			10/27/17 16:00	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 16:00	1
Allyl chloride	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Chloroethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1

Client Sample ID: W-171017-MB-08

Lab Sample ID: 480-126333-8

Date Collected: 10/17/17 10:06

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/27/17 16:00	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 16:00	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
t-Butanol	ND		10	10	ug/L			10/27/17 16:00	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 16:00	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 16:00	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 16:00	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 16:00	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 16:00	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 16:00	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*10/27/17 16:00*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/27/17 16:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.6**		1.0	1.0	mg/L			11/02/17 08:52	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-09

Lab Sample ID: 480-126333-9

Date Collected: 10/17/17 10:08

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 16:29	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 16:29	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 16:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 16:29	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
2-Hexanone	ND		10	10	ug/L			10/27/17 16:29	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 16:29	1
Acetone	ND		10	10	ug/L			10/27/17 16:29	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 16:29	1
Allyl chloride	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Chloroethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1

Client Sample ID: W-171017-MB-09

Lab Sample ID: 480-126333-9

Date Collected: 10/17/17 10:08

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/27/17 16:29	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 16:29	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
t-Butanol	ND		10	10	ug/L			10/27/17 16:29	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 16:29	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 16:29	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 16:29	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 16:29	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 16:29	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 16:29	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/27/17 16:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/27/17 16:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			11/02/17 10:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-10

Date Collected: 10/17/17 10:36
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-10

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 16:58	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 16:58	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 16:58	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 16:58	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
2-Hexanone	ND		10	10	ug/L			10/27/17 16:58	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 16:58	1
Acetone	ND		10	10	ug/L			10/27/17 16:58	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 16:58	1
Allyl chloride	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Chloroethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1

Client Sample ID: W-171017-MB-10

Lab Sample ID: 480-126333-10

Date Collected: 10/17/17 10:36

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/27/17 16:58	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 16:58	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
t-Butanol	ND		10	10	ug/L			10/27/17 16:58	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 16:58	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 16:58	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 16:58	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 16:58	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 16:58	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 16:58	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*10/27/17 16:58*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/27/17 16:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.3**		0.50	0.50	mg/L			11/02/17 10:20	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-11

Lab Sample ID: 480-126333-11

Date Collected: 10/17/17 10:40
Date Received: 10/23/17 09:30

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 17:28	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 17:28	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 17:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 17:28	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
2-Hexanone	ND		10	10	ug/L			10/27/17 17:28	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 17:28	1
Acetone	ND		10	10	ug/L			10/27/17 17:28	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 17:28	1
Allyl chloride	ND	F1 F2	0.50	0.50	ug/L			10/27/17 17:28	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Carbon disulfide	ND	F1	0.50	0.50	ug/L			10/27/17 17:28	1
Carbon tetrachloride	ND	F2	0.50	0.50	ug/L			10/27/17 17:28	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Chloroethane	ND	F1 F2	0.50	0.50	ug/L			10/27/17 17:28	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1

Client Sample ID: W-171017-MB-11

Lab Sample ID: 480-126333-11

Date Collected: 10/17/17 10:40

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/27/17 17:28	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 17:28	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
t-Butanol	ND		10	10	ug/L			10/27/17 17:28	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 17:28	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 17:28	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 17:28	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 17:28	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 17:28	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 17:28	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/27/17 17:28*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/27/17 17:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.5**		1.0	1.0	mg/L			11/02/17 03:02	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-12

Lab Sample ID: 480-126333-12

Date Collected: 10/17/17 11:15

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 17:58	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 17:58	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 17:58	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 17:58	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
2-Hexanone	ND		10	10	ug/L			10/27/17 17:58	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 17:58	1
Acetone	ND		10	10	ug/L			10/27/17 17:58	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 17:58	1
Allyl chloride	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Chloroethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1

Client Sample ID: W-171017-MB-12

Lab Sample ID: 480-126333-12

Date Collected: 10/17/17 11:15

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/27/17 17:58	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 17:58	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
t-Butanol	ND		10	10	ug/L			10/27/17 17:58	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 17:58	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 17:58	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 17:58	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 17:58	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 17:58	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 17:58	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*10/27/17 17:58*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/27/17 17:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.6**		1.0	1.0	mg/L			11/02/17 10:34	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-13

Date Collected: 10/17/17 11:20
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-13

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 18:27	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 18:27	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 18:27	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 18:27	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
2-Hexanone	ND		10	10	ug/L			10/27/17 18:27	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 18:27	1
Acetone	ND		10	10	ug/L			10/27/17 18:27	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 18:27	1
Allyl chloride	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Chloroethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1

Client Sample ID: W-171017-MB-13

Lab Sample ID: 480-126333-13

Date Collected: 10/17/17 11:20

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/27/17 18:27	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 18:27	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
t-Butanol	ND		10	10	ug/L			10/27/17 18:27	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 18:27	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 18:27	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 18:27	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 18:27	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 18:27	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 18:27	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*10/27/17 18:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/27/17 18:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.2**		1.0	1.0	mg/L			11/02/17 10:49	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-14

Date Collected: 10/17/17 11:21
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-14

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 18:57	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 18:57	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 18:57	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
2,2-Dichloropropane	**1.0**		0.50	0.50	ug/L			10/27/17 18:57	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 18:57	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
2-Hexanone	ND		10	10	ug/L			10/27/17 18:57	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 18:57	1
Acetone	ND		10	10	ug/L			10/27/17 18:57	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 18:57	1
Allyl chloride	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Chloroethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1

Client Sample ID: W-171017-MB-14

Lab Sample ID: 480-126333-14

Date Collected: 10/17/17 11:21

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/27/17 18:57	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 18:57	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
t-Butanol	ND		10	10	ug/L			10/27/17 18:57	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 18:57	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 18:57	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 18:57	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 18:57	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 18:57	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 18:57	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*10/27/17 18:57*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/27/17 18:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.3**		1.0	1.0	mg/L			11/02/17 11:03	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-15

Date Collected: 10/17/17 11:25
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-15

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 19:27	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 19:27	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 19:27	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 19:27	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
2-Hexanone	ND		10	10	ug/L			10/27/17 19:27	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 19:27	1
Acetone	ND		10	10	ug/L			10/27/17 19:27	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 19:27	1
Allyl chloride	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Chloroethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-15

Date Collected: 10/17/17 11:25
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-15

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/27/17 19:27	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 19:27	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
t-Butanol	ND		10	10	ug/L			10/27/17 19:27	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 19:27	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 19:27	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 19:27	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 19:27	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 19:27	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 19:27	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*10/27/17 19:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/27/17 19:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.2**		1.0	1.0	mg/L			11/02/17 11:18	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-16

Date Collected: 10/17/17 11:27
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-16

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 19:57	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 19:57	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 19:57	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 19:57	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
2-Hexanone	ND		10	10	ug/L			10/27/17 19:57	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 19:57	1
Acetone	ND		10	10	ug/L			10/27/17 19:57	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 19:57	1
Allyl chloride	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Chloroethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-16

Date Collected: 10/17/17 11:27
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-16

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/27/17 19:57	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 19:57	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
t-Butanol	ND		10	10	ug/L			10/27/17 19:57	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 19:57	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 19:57	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 19:57	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 19:57	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 19:57	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 19:57	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/27/17 19:57*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/27/17 19:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			11/02/17 11:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-17

Lab Sample ID: 480-126333-17

Date Collected: 10/17/17 12:18

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 20:27	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 20:27	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 20:27	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 20:27	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
2-Hexanone	ND		10	10	ug/L			10/27/17 20:27	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 20:27	1
Acetone	ND		10	10	ug/L			10/27/17 20:27	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 20:27	1
Allyl chloride	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Chloroethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1

Client Sample ID: W-171017-MB-17

Lab Sample ID: 480-126333-17

Date Collected: 10/17/17 12:18

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/27/17 20:27	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 20:27	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
t-Butanol	ND		10	10	ug/L			10/27/17 20:27	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 20:27	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 20:27	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 20:27	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 20:27	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 20:27	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 20:27	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*10/27/17 20:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/27/17 20:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69.9**		1.0	1.0	mg/L			11/02/17 11:47	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-18

Lab Sample ID: 480-126333-18

Date Collected: 10/17/17 12:23
Date Received: 10/23/17 09:30

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 20:56	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 20:56	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 20:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 20:56	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
2-Hexanone	ND		10	10	ug/L			10/27/17 20:56	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 20:56	1
Acetone	ND		10	10	ug/L			10/27/17 20:56	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 20:56	1
Allyl chloride	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Chloroethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1

Client Sample ID: W-171017-MB-18

Lab Sample ID: 480-126333-18

Date Collected: 10/17/17 12:23

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/27/17 20:56	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 20:56	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
t-Butanol	ND		10	10	ug/L			10/27/17 20:56	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 20:56	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 20:56	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 20:56	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 20:56	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 20:56	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 20:56	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/27/17 20:56*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/27/17 20:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.8**		1.0	1.0	mg/L			11/02/17 12:02	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-19

Lab Sample ID: 480-126333-19

Date Collected: 10/17/17 12:31
Date Received: 10/23/17 09:30

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 21:26	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 21:26	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 21:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 21:26	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
2-Hexanone	ND		10	10	ug/L			10/27/17 21:26	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 21:26	1
Acetone	ND		10	10	ug/L			10/27/17 21:26	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 21:26	1
Allyl chloride	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Chloroethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1

Client Sample ID: W-171017-MB-19

Lab Sample ID: 480-126333-19

Date Collected: 10/17/17 12:31

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/27/17 21:26	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 21:26	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
t-Butanol	ND		10	10	ug/L			10/27/17 21:26	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 21:26	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 21:26	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 21:26	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 21:26	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 21:26	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 21:26	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/27/17 21:26*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/27/17 21:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.8**		1.0	1.0	mg/L			11/01/17 15:31	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-20

Lab Sample ID: 480-126333-20

Date Collected: 10/17/17 12:57
Date Received: 10/23/17 09:30

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 21:56	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 21:56	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 21:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 21:56	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
2-Hexanone	ND		10	10	ug/L			10/27/17 21:56	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 21:56	1
Acetone	ND		10	10	ug/L			10/27/17 21:56	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 21:56	1
Allyl chloride	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Chloroethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1

Client Sample ID: W-171017-MB-20

Lab Sample ID: 480-126333-20

Date Collected: 10/17/17 12:57

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/27/17 21:56	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 21:56	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
t-Butanol	ND		10	10	ug/L			10/27/17 21:56	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 21:56	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 21:56	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 21:56	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 21:56	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 21:56	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 21:56	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/27/17 21:56*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/27/17 21:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.4**		1.0	1.0	mg/L			11/01/17 15:39	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-21

Lab Sample ID: 480-126333-21

Date Collected: 10/17/17 13:04

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/28/17 22:26	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/28/17 22:26	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/28/17 22:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/28/17 22:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/28/17 22:26	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/28/17 22:26	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/28/17 22:26	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/28/17 22:26	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
2-Hexanone	ND	*	10	10	ug/L			10/28/17 22:26	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/28/17 22:26	1
Acetone	ND	*	10	10	ug/L			10/28/17 22:26	1
Acrylonitrile	ND	*	10	10	ug/L			10/28/17 22:26	1
Allyl chloride	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Benzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Bromobenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
Bromoform	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Bromomethane	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
Chloroform	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
Dibromomethane	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/28/17 22:26	1

Client Sample ID: W-171017-MB-21

Lab Sample ID: 480-126333-21

Date Collected: 10/17/17 13:04

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Iodomethane	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/28/17 22:26	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/28/17 22:26	1
Naphthalene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
o-Xylene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Styrene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
t-Butanol	ND	*	10	10	ug/L			10/28/17 22:26	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
Toluene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/28/17 22:26	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/28/17 22:26	1
Trichloroethene	ND		0.20	0.20	ug/L			10/28/17 22:26	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/28/17 22:26	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/28/17 22:26	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/28/17 22:26	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/28/17 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*10/28/17 22:26*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/28/17 22:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.4**		1.0	1.0	mg/L			11/01/17 15:48	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-22

Lab Sample ID: 480-126333-22

Date Collected: 10/17/17 13:09

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/28/17 22:56	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/28/17 22:56	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/28/17 22:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/28/17 22:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/28/17 22:56	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/28/17 22:56	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/28/17 22:56	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/28/17 22:56	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
2-Hexanone	ND	*	10	10	ug/L			10/28/17 22:56	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/28/17 22:56	1
Acetone	ND	*	10	10	ug/L			10/28/17 22:56	1
Acrylonitrile	ND	*	10	10	ug/L			10/28/17 22:56	1
Allyl chloride	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Benzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Bromobenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
Bromoform	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Bromomethane	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
Chloroform	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
Dibromomethane	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/28/17 22:56	1

Client Sample ID: W-171017-MB-22

Lab Sample ID: 480-126333-22

Date Collected: 10/17/17 13:09

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Iodomethane	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/28/17 22:56	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/28/17 22:56	1
Naphthalene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
o-Xylene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Styrene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
t-Butanol	ND	*	10	10	ug/L			10/28/17 22:56	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
Toluene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/28/17 22:56	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/28/17 22:56	1
Trichloroethene	ND		0.20	0.20	ug/L			10/28/17 22:56	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/28/17 22:56	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/28/17 22:56	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/28/17 22:56	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/28/17 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*10/28/17 22:56*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/28/17 22:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.5**		1.0	1.0	mg/L			11/01/17 15:56	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-23

Lab Sample ID: 480-126333-23

Date Collected: 10/17/17 13:47

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/28/17 23:25	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/28/17 23:25	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/28/17 23:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/28/17 23:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/28/17 23:25	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/28/17 23:25	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/28/17 23:25	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/28/17 23:25	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
2-Hexanone	ND	*	10	10	ug/L			10/28/17 23:25	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/28/17 23:25	1
Acetone	ND	*	10	10	ug/L			10/28/17 23:25	1
Acrylonitrile	ND	*	10	10	ug/L			10/28/17 23:25	1
Allyl chloride	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Benzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Bromobenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
Bromoform	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Bromomethane	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
Chloroform	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
Dibromomethane	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/28/17 23:25	1

Client Sample ID: W-171017-MB-23

Lab Sample ID: 480-126333-23

Date Collected: 10/17/17 13:47

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Iodomethane	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/28/17 23:25	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/28/17 23:25	1
Naphthalene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
o-Xylene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Styrene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
t-Butanol	ND	*	10	10	ug/L			10/28/17 23:25	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
Toluene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/28/17 23:25	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/28/17 23:25	1
Trichloroethene	ND		0.20	0.20	ug/L			10/28/17 23:25	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/28/17 23:25	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/28/17 23:25	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/28/17 23:25	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/28/17 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*10/28/17 23:25*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/28/17 23:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.4**		1.0	1.0	mg/L			10/31/17 11:18	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-24

Lab Sample ID: 480-126333-24

Date Collected: 10/17/17 13:51
Date Received: 10/23/17 09:30

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/28/17 23:55	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/28/17 23:55	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/28/17 23:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/28/17 23:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/28/17 23:55	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/28/17 23:55	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/28/17 23:55	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/28/17 23:55	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
2-Hexanone	ND	*	10	10	ug/L			10/28/17 23:55	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/28/17 23:55	1
Acetone	ND	*	10	10	ug/L			10/28/17 23:55	1
Acrylonitrile	ND	*	10	10	ug/L			10/28/17 23:55	1
Allyl chloride	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Benzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Bromobenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
Bromoform	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Bromomethane	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
Chloroform	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
Dibromomethane	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/28/17 23:55	1

Client Sample ID: W-171017-MB-24

Lab Sample ID: 480-126333-24

Date Collected: 10/17/17 13:51

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Iodomethane	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/28/17 23:55	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/28/17 23:55	1
Naphthalene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
o-Xylene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Styrene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
t-Butanol	ND	*	10	10	ug/L			10/28/17 23:55	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
Toluene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/28/17 23:55	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/28/17 23:55	1
Trichloroethene	ND		0.20	0.20	ug/L			10/28/17 23:55	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/28/17 23:55	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/28/17 23:55	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/28/17 23:55	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/28/17 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/28/17 23:55*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/28/17 23:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.0**		1.0	1.0	mg/L			10/31/17 12:07	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-25

Lab Sample ID: 480-126333-25

Date Collected: 10/17/17 13:58

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/29/17 00:24	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/29/17 00:24	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/29/17 00:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/29/17 00:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/29/17 00:24	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/29/17 00:24	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/29/17 00:24	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/29/17 00:24	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
2-Hexanone	ND	*	10	10	ug/L			10/29/17 00:24	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/29/17 00:24	1
Acetone	ND	*	10	10	ug/L			10/29/17 00:24	1
Acrylonitrile	ND	*	10	10	ug/L			10/29/17 00:24	1
Allyl chloride	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Benzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Bromobenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
Bromoform	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Bromomethane	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
Chloroform	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
Dibromomethane	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/29/17 00:24	1

Client Sample ID: W-171017-MB-25

Lab Sample ID: 480-126333-25

Date Collected: 10/17/17 13:58

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Iodomethane	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/29/17 00:24	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/29/17 00:24	1
Naphthalene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
o-Xylene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Styrene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
t-Butanol	ND	*	10	10	ug/L			10/29/17 00:24	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
Toluene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 00:24	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/29/17 00:24	1
Trichloroethene	ND		0.20	0.20	ug/L			10/29/17 00:24	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 00:24	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/29/17 00:24	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/29/17 00:24	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/29/17 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/29/17 00:24*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/29/17 00:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.3**		1.0	1.0	mg/L			10/31/17 12:15	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-26

Lab Sample ID: 480-126333-26

Date Collected: 10/17/17 14:00

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/29/17 00:53	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/29/17 00:53	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/29/17 00:53	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/29/17 00:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/29/17 00:53	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/29/17 00:53	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/29/17 00:53	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/29/17 00:53	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
2-Hexanone	ND	*	10	10	ug/L			10/29/17 00:53	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/29/17 00:53	1
Acetone	ND	*	10	10	ug/L			10/29/17 00:53	1
Acrylonitrile	ND	*	10	10	ug/L			10/29/17 00:53	1
Allyl chloride	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Benzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Bromobenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
Bromoform	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Bromomethane	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
Chloroform	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
Dibromomethane	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/29/17 00:53	1

Client Sample ID: W-171017-MB-26

Lab Sample ID: 480-126333-26

Date Collected: 10/17/17 14:00

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Iodomethane	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/29/17 00:53	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/29/17 00:53	1
Naphthalene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
o-Xylene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Styrene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
t-Butanol	ND	*	10	10	ug/L			10/29/17 00:53	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
Toluene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 00:53	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/29/17 00:53	1
Trichloroethene	ND		0.20	0.20	ug/L			10/29/17 00:53	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 00:53	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/29/17 00:53	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/29/17 00:53	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/29/17 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/29/17 00:53*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/29/17 00:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.2**		1.0	1.0	mg/L			10/31/17 12:23	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-27

Lab Sample ID: 480-126333-27

Date Collected: 10/17/17 14:32

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/29/17 01:23	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/29/17 01:23	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/29/17 01:23	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/29/17 01:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/29/17 01:23	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/29/17 01:23	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/29/17 01:23	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/29/17 01:23	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
2-Hexanone	ND	*	10	10	ug/L			10/29/17 01:23	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/29/17 01:23	1
Acetone	ND	*	10	10	ug/L			10/29/17 01:23	1
Acrylonitrile	ND	*	10	10	ug/L			10/29/17 01:23	1
Allyl chloride	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Benzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Bromobenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
Bromoform	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Bromomethane	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
Chloroform	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
Dibromomethane	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/29/17 01:23	1

Client Sample ID: W-171017-MB-27

Lab Sample ID: 480-126333-27

Date Collected: 10/17/17 14:32

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Iodomethane	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/29/17 01:23	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/29/17 01:23	1
Naphthalene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
o-Xylene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Styrene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
t-Butanol	ND	*	10	10	ug/L			10/29/17 01:23	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
Toluene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 01:23	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/29/17 01:23	1
Trichloroethene	ND		0.20	0.20	ug/L			10/29/17 01:23	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 01:23	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/29/17 01:23	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/29/17 01:23	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/29/17 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*10/29/17 01:23*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/29/17 01:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.1**		1.0	1.0	mg/L			10/31/17 12:32	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-28

Lab Sample ID: 480-126333-28

Date Collected: 10/17/17 14:39

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/29/17 01:52	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/29/17 01:52	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/29/17 01:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/29/17 01:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/29/17 01:52	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/29/17 01:52	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/29/17 01:52	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/29/17 01:52	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
2-Hexanone	ND	*	10	10	ug/L			10/29/17 01:52	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/29/17 01:52	1
Acetone	ND	*	10	10	ug/L			10/29/17 01:52	1
Acrylonitrile	ND	*	10	10	ug/L			10/29/17 01:52	1
Allyl chloride	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Benzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Bromobenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
Bromoform	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Bromomethane	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
Chloroform	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
Dibromomethane	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/29/17 01:52	1

Client Sample ID: W-171017-MB-28

Lab Sample ID: 480-126333-28

Date Collected: 10/17/17 14:39

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Iodomethane	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/29/17 01:52	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/29/17 01:52	1
Naphthalene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
o-Xylene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Styrene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
t-Butanol	ND	*	10	10	ug/L			10/29/17 01:52	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
Toluene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 01:52	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/29/17 01:52	1
Trichloroethene	ND		0.20	0.20	ug/L			10/29/17 01:52	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 01:52	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/29/17 01:52	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/29/17 01:52	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/29/17 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*10/29/17 01:52*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/29/17 01:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.2**		1.0	1.0	mg/L			10/31/17 12:40	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-29

Lab Sample ID: 480-126333-29

Date Collected: 10/17/17 14:41
Date Received: 10/23/17 09:30

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/29/17 02:22	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/29/17 02:22	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/29/17 02:22	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/29/17 02:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/29/17 02:22	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/29/17 02:22	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/29/17 02:22	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/29/17 02:22	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
2-Hexanone	ND	*	10	10	ug/L			10/29/17 02:22	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/29/17 02:22	1
Acetone	ND	*	10	10	ug/L			10/29/17 02:22	1
Acrylonitrile	ND	*	10	10	ug/L			10/29/17 02:22	1
Allyl chloride	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Benzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Bromobenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
Bromoform	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Bromomethane	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
Chloroform	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
Dibromomethane	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/29/17 02:22	1

Client Sample ID: W-171017-MB-29

Lab Sample ID: 480-126333-29

Date Collected: 10/17/17 14:41

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Iodomethane	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/29/17 02:22	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/29/17 02:22	1
Naphthalene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
o-Xylene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Styrene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
t-Butanol	ND	*	10	10	ug/L			10/29/17 02:22	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
Toluene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 02:22	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/29/17 02:22	1
Trichloroethene	ND		0.20	0.20	ug/L			10/29/17 02:22	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 02:22	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/29/17 02:22	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/29/17 02:22	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/29/17 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*10/29/17 02:22*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/29/17 02:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			10/31/17 12:48	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-30

Date Collected: 10/17/17 14:47
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-30

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/29/17 02:51	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/29/17 02:51	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/29/17 02:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/29/17 02:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/29/17 02:51	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/29/17 02:51	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/29/17 02:51	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
2,2-Dichloropropane	ND	F2 *	0.50	0.50	ug/L			10/29/17 02:51	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/29/17 02:51	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
2-Hexanone	ND	*	10	10	ug/L			10/29/17 02:51	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/29/17 02:51	1
Acetone	ND	*	10	10	ug/L			10/29/17 02:51	1
Acrylonitrile	ND	*	10	10	ug/L			10/29/17 02:51	1
Allyl chloride	ND	F1	0.50	0.50	ug/L			10/29/17 02:51	1
Benzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Bromobenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
Bromoform	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Bromomethane	ND	F1	0.50	0.50	ug/L			10/29/17 02:51	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Chloroethane	ND	F1 *	0.50	0.50	ug/L			10/29/17 02:51	1
Chloroform	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
Dibromomethane	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/29/17 02:51	1

Client Sample ID: W-171017-MB-30

Lab Sample ID: 480-126333-30

Date Collected: 10/17/17 14:47

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Iodomethane	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/29/17 02:51	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/29/17 02:51	1
Naphthalene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
o-Xylene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Styrene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
t-Butanol	ND	*	10	10	ug/L			10/29/17 02:51	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
Toluene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 02:51	1
trans-1,4-Dichloro-2-butene	ND	F1	2.5	2.5	ug/L			10/29/17 02:51	1
Trichloroethene	ND		0.20	0.20	ug/L			10/29/17 02:51	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 02:51	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/29/17 02:51	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/29/17 02:51	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/29/17 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/29/17 02:51*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/29/17 02:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.2**		1.0	1.0	mg/L			10/31/17 11:26	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-31

Lab Sample ID: 480-126333-31

Date Collected: 10/18/17 08:59

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/29/17 03:21	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/29/17 03:21	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/29/17 03:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/29/17 03:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/29/17 03:21	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/29/17 03:21	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/29/17 03:21	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/29/17 03:21	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
2-Hexanone	ND	*	10	10	ug/L			10/29/17 03:21	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/29/17 03:21	1
Acetone	ND	*	10	10	ug/L			10/29/17 03:21	1
Acrylonitrile	ND	*	10	10	ug/L			10/29/17 03:21	1
Allyl chloride	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Benzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Bromobenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
Bromoform	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Bromomethane	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
Chloroform	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
Dibromomethane	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/29/17 03:21	1

Client Sample ID: W-171018-MB-31

Lab Sample ID: 480-126333-31

Date Collected: 10/18/17 08:59

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Iodomethane	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/29/17 03:21	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/29/17 03:21	1
Naphthalene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
o-Xylene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Styrene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
t-Butanol	ND	*	10	10	ug/L			10/29/17 03:21	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
Toluene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 03:21	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/29/17 03:21	1
Trichloroethene	ND		0.20	0.20	ug/L			10/29/17 03:21	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 03:21	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/29/17 03:21	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/29/17 03:21	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/29/17 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*10/29/17 03:21*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*10/29/17 03:21*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.0**		0.50	0.50	mg/L			10/31/17 12:56	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-32

Lab Sample ID: 480-126333-32

Date Collected: 10/18/17 09:03

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/29/17 03:50	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/29/17 03:50	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/29/17 03:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/29/17 03:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/29/17 03:50	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/29/17 03:50	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/29/17 03:50	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/29/17 03:50	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
2-Hexanone	ND	*	10	10	ug/L			10/29/17 03:50	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/29/17 03:50	1
Acetone	ND	*	10	10	ug/L			10/29/17 03:50	1
Acrylonitrile	ND	*	10	10	ug/L			10/29/17 03:50	1
Allyl chloride	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Benzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Bromobenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
Bromoform	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Bromomethane	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
Chloroform	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
Dibromomethane	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/29/17 03:50	1

Client Sample ID: W-171018-MB-32

Date Collected: 10/18/17 09:03
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-32

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Iodomethane	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/29/17 03:50	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/29/17 03:50	1
Naphthalene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
o-Xylene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Styrene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
t-Butanol	ND	*	10	10	ug/L			10/29/17 03:50	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
Toluene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 03:50	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/29/17 03:50	1
Trichloroethene	ND		0.20	0.20	ug/L			10/29/17 03:50	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 03:50	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/29/17 03:50	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/29/17 03:50	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/29/17 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/29/17 03:50*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/29/17 03:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.0**		1.0	1.0	mg/L			10/31/17 13:04	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-33

Lab Sample ID: 480-126333-33

Date Collected: 10/18/17 09:35

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/29/17 04:20	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/29/17 04:20	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/29/17 04:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/29/17 04:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/29/17 04:20	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/29/17 04:20	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/29/17 04:20	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/29/17 04:20	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
2-Hexanone	ND	*	10	10	ug/L			10/29/17 04:20	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/29/17 04:20	1
Acetone	ND	*	10	10	ug/L			10/29/17 04:20	1
Acrylonitrile	ND	*	10	10	ug/L			10/29/17 04:20	1
Allyl chloride	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Benzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Bromobenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
Bromoform	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Bromomethane	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
Chloroform	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
Dibromomethane	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/29/17 04:20	1

Client Sample ID: W-171018-MB-33

Lab Sample ID: 480-126333-33

Date Collected: 10/18/17 09:35

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Iodomethane	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/29/17 04:20	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/29/17 04:20	1
Naphthalene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
o-Xylene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Styrene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
t-Butanol	ND	*	10	10	ug/L			10/29/17 04:20	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
Toluene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 04:20	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/29/17 04:20	1
Trichloroethene	ND		0.20	0.20	ug/L			10/29/17 04:20	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 04:20	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/29/17 04:20	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/29/17 04:20	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/29/17 04:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/29/17 04:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/29/17 04:20*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.3**		1.0	1.0	mg/L			10/31/17 13:12	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-34

Lab Sample ID: 480-126333-34

Date Collected: 10/18/17 09:40
Matrix: Water
Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/29/17 04:50	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/29/17 04:50	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/29/17 04:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/29/17 04:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/29/17 04:50	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/29/17 04:50	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/29/17 04:50	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/29/17 04:50	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
2-Hexanone	ND	*	10	10	ug/L			10/29/17 04:50	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/29/17 04:50	1
Acetone	ND	*	10	10	ug/L			10/29/17 04:50	1
Acrylonitrile	ND	*	10	10	ug/L			10/29/17 04:50	1
Allyl chloride	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Benzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Bromobenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
Bromoform	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Bromomethane	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
Chloroform	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
Dibromomethane	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/29/17 04:50	1

Client Sample ID: W-171018-MB-34

Lab Sample ID: 480-126333-34

Date Collected: 10/18/17 09:40

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Iodomethane	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/29/17 04:50	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/29/17 04:50	1
Naphthalene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
o-Xylene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Styrene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
t-Butanol	ND	*	10	10	ug/L			10/29/17 04:50	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
Toluene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 04:50	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/29/17 04:50	1
Trichloroethene	ND		0.20	0.20	ug/L			10/29/17 04:50	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 04:50	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/29/17 04:50	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/29/17 04:50	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/29/17 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/29/17 04:50*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/29/17 04:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.9**		1.0	1.0	mg/L			10/31/17 14:01	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-35

Lab Sample ID: 480-126333-35

Date Collected: 10/18/17 09:44

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/29/17 05:19	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/29/17 05:19	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/29/17 05:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/29/17 05:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/29/17 05:19	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/29/17 05:19	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/29/17 05:19	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/29/17 05:19	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
2-Hexanone	ND	*	10	10	ug/L			10/29/17 05:19	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/29/17 05:19	1
Acetone	ND	*	10	10	ug/L			10/29/17 05:19	1
Acrylonitrile	ND	*	10	10	ug/L			10/29/17 05:19	1
Allyl chloride	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Benzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Bromobenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
Bromoform	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Bromomethane	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
Chloroform	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
Dibromomethane	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/29/17 05:19	1

Client Sample ID: W-171018-MB-35

Lab Sample ID: 480-126333-35

Date Collected: 10/18/17 09:44

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Iodomethane	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/29/17 05:19	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/29/17 05:19	1
Naphthalene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
o-Xylene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Styrene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
t-Butanol	ND	*	10	10	ug/L			10/29/17 05:19	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
Toluene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 05:19	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/29/17 05:19	1
Trichloroethene	ND		0.20	0.20	ug/L			10/29/17 05:19	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 05:19	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/29/17 05:19	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/29/17 05:19	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/29/17 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*10/29/17 05:19*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/29/17 05:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.4**		1.0	1.0	mg/L			10/31/17 14:09	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-36

Lab Sample ID: 480-126333-36

Date Collected: 10/18/17 10:14

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/29/17 05:48	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/29/17 05:48	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/29/17 05:48	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/29/17 05:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/29/17 05:48	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/29/17 05:48	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/29/17 05:48	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/29/17 05:48	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
2-Hexanone	ND	*	10	10	ug/L			10/29/17 05:48	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/29/17 05:48	1
Acetone	ND	*	10	10	ug/L			10/29/17 05:48	1
Acrylonitrile	ND	*	10	10	ug/L			10/29/17 05:48	1
Allyl chloride	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Benzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Bromobenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
Bromoform	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Bromomethane	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
Chloroform	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
Dibromomethane	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/29/17 05:48	1

Client Sample ID: W-171018-MB-36

Lab Sample ID: 480-126333-36

Date Collected: 10/18/17 10:14

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Iodomethane	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/29/17 05:48	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/29/17 05:48	1
Naphthalene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
o-Xylene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Styrene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
t-Butanol	ND	*	10	10	ug/L			10/29/17 05:48	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
Toluene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/29/17 05:48	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/29/17 05:48	1
Trichloroethene	ND		0.20	0.20	ug/L			10/29/17 05:48	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/29/17 05:48	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/29/17 05:48	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/29/17 05:48	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/29/17 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/29/17 05:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/29/17 05:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.7**		1.0	1.0	mg/L			10/31/17 14:17	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-37

Date Collected: 10/18/17 10:15
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-37

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/30/17 14:19	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/30/17 14:19	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/30/17 14:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
2-Butanone (MEK)	ND		10	10	ug/L			10/30/17 14:19	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
2-Hexanone	ND		10	10	ug/L			10/30/17 14:19	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/30/17 14:19	1
Acetone	ND		10	10	ug/L			10/30/17 14:19	1
Acrylonitrile	ND		10	10	ug/L			10/30/17 14:19	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/30/17 14:19	1
Benzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Bromobenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Bromoform	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Bromomethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Chloroethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Chloroform	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Chloromethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Dibromomethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1

Client Sample ID: W-171018-MB-37

Lab Sample ID: 480-126333-37

Date Collected: 10/18/17 10:15

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Ethyl ether	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Iodomethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Methylene Chloride	ND		2.5	2.5	ug/L			10/30/17 14:19	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/30/17 14:19	1
Naphthalene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
o-Xylene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Styrene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
t-Butanol	ND		10	10	ug/L			10/30/17 14:19	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Toluene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 14:19	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/30/17 14:19	1
Trichloroethene	ND		0.20	0.20	ug/L			10/30/17 14:19	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 14:19	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/30/17 14:19	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/30/17 14:19	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/30/17 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/30/17 14:19*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*10/30/17 14:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.7**		1.0	1.0	mg/L			10/31/17 15:19	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-38

Date Collected: 10/18/17 10:20
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-38

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/30/17 14:49	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/30/17 14:49	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/30/17 14:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
2-Butanone (MEK)	ND		10	10	ug/L			10/30/17 14:49	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
2-Hexanone	ND		10	10	ug/L			10/30/17 14:49	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/30/17 14:49	1
Acetone	ND		10	10	ug/L			10/30/17 14:49	1
Acrylonitrile	ND		10	10	ug/L			10/30/17 14:49	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/30/17 14:49	1
Benzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Bromobenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Bromoform	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Bromomethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Chloroethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Chloroform	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Chloromethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Dibromomethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1

Client Sample ID: W-171018-MB-38

Lab Sample ID: 480-126333-38

Date Collected: 10/18/17 10:20

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Ethyl ether	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Iodomethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Methylene Chloride	ND		2.5	2.5	ug/L			10/30/17 14:49	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/30/17 14:49	1
Naphthalene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
o-Xylene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Styrene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
t-Butanol	ND		10	10	ug/L			10/30/17 14:49	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Toluene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 14:49	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/30/17 14:49	1
Trichloroethene	ND		0.20	0.20	ug/L			10/30/17 14:49	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 14:49	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/30/17 14:49	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/30/17 14:49	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/30/17 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*10/30/17 14:49*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*10/30/17 14:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.0**		1.0	1.0	mg/L			10/31/17 15:28	2

Client Sample ID: W-171018-MB-39

Lab Sample ID: 480-126333-39

Date Collected: 10/18/17 10:22

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/30/17 15:18	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/30/17 15:18	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/30/17 15:18	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
2-Butanone (MEK)	ND		10	10	ug/L			10/30/17 15:18	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
2-Hexanone	ND		10	10	ug/L			10/30/17 15:18	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/30/17 15:18	1
Acetone	ND		10	10	ug/L			10/30/17 15:18	1
Acrylonitrile	ND		10	10	ug/L			10/30/17 15:18	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/30/17 15:18	1
Benzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Bromobenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Bromoform	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Bromomethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Chloroethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Chloroform	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Chloromethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Dibromomethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1

Client Sample ID: W-171018-MB-39

Lab Sample ID: 480-126333-39

Date Collected: 10/18/17 10:22

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Ethyl ether	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Iodomethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Methylene Chloride	ND		2.5	2.5	ug/L			10/30/17 15:18	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/30/17 15:18	1
Naphthalene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
o-Xylene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Styrene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
t-Butanol	ND		10	10	ug/L			10/30/17 15:18	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Toluene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 15:18	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/30/17 15:18	1
Trichloroethene	ND		0.20	0.20	ug/L			10/30/17 15:18	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 15:18	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/30/17 15:18	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/30/17 15:18	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/30/17 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*10/30/17 15:18*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*10/30/17 15:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			10/31/17 16:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-40

Lab Sample ID: 480-126333-40

Date Collected: 10/18/17 10:25
Date Received: 10/23/17 09:30

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/30/17 15:48	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/30/17 15:48	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/30/17 15:48	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
2-Butanone (MEK)	ND		10	10	ug/L			10/30/17 15:48	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
2-Hexanone	ND		10	10	ug/L			10/30/17 15:48	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/30/17 15:48	1
Acetone	ND		10	10	ug/L			10/30/17 15:48	1
Acrylonitrile	ND		10	10	ug/L			10/30/17 15:48	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/30/17 15:48	1
Benzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Bromobenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Bromoform	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Bromomethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Chloroethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Chloroform	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Chloromethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Dibromomethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1

Client Sample ID: W-171018-MB-40

Lab Sample ID: 480-126333-40

Date Collected: 10/18/17 10:25

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Ethyl ether	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Iodomethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Methylene Chloride	ND		2.5	2.5	ug/L			10/30/17 15:48	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/30/17 15:48	1
Naphthalene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
o-Xylene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Styrene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
t-Butanol	ND		10	10	ug/L			10/30/17 15:48	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Toluene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 15:48	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/30/17 15:48	1
Trichloroethene	ND		0.20	0.20	ug/L			10/30/17 15:48	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 15:48	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/30/17 15:48	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/30/17 15:48	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/30/17 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*10/30/17 15:48*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*10/30/17 15:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.5**		1.0	1.0	mg/L			10/31/17 16:25	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-41

Lab Sample ID: 480-126333-41

Date Collected: 10/18/17 10:56

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/30/17 16:17	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/30/17 16:17	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/30/17 16:17	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
2-Butanone (MEK)	ND		10	10	ug/L			10/30/17 16:17	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
2-Hexanone	ND		10	10	ug/L			10/30/17 16:17	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/30/17 16:17	1
Acetone	ND		10	10	ug/L			10/30/17 16:17	1
Acrylonitrile	ND		10	10	ug/L			10/30/17 16:17	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/30/17 16:17	1
Benzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Bromobenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Bromoform	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Bromomethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Chloroethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Chloroform	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Chloromethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Dibromomethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1

Client Sample ID: W-171018-MB-41

Lab Sample ID: 480-126333-41

Date Collected: 10/18/17 10:56

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Ethyl ether	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Iodomethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Methylene Chloride	ND		2.5	2.5	ug/L			10/30/17 16:17	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/30/17 16:17	1
Naphthalene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
o-Xylene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Styrene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
t-Butanol	ND		10	10	ug/L			10/30/17 16:17	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Toluene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 16:17	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/30/17 16:17	1
Trichloroethene	ND		0.20	0.20	ug/L			10/30/17 16:17	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 16:17	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/30/17 16:17	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/30/17 16:17	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/30/17 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/30/17 16:17*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*10/30/17 16:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.6**		1.0	1.0	mg/L			10/31/17 16:33	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-42

Date Collected: 10/18/17 11:02
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-42

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/30/17 16:47	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/30/17 16:47	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/30/17 16:47	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
2-Butanone (MEK)	ND		10	10	ug/L			10/30/17 16:47	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
2-Hexanone	ND		10	10	ug/L			10/30/17 16:47	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/30/17 16:47	1
Acetone	ND		10	10	ug/L			10/30/17 16:47	1
Acrylonitrile	ND		10	10	ug/L			10/30/17 16:47	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/30/17 16:47	1
Benzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Bromobenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Bromoform	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Bromomethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Chloroethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Chloroform	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Chloromethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Dibromomethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-42

Date Collected: 10/18/17 11:02
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-42

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Ethyl ether	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Iodomethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Methylene Chloride	ND		2.5	2.5	ug/L			10/30/17 16:47	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/30/17 16:47	1
Naphthalene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
o-Xylene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Styrene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
t-Butanol	ND		10	10	ug/L			10/30/17 16:47	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Toluene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 16:47	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/30/17 16:47	1
Trichloroethene	ND		0.20	0.20	ug/L			10/30/17 16:47	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 16:47	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/30/17 16:47	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/30/17 16:47	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/30/17 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/30/17 16:47*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*10/30/17 16:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.0**		1.0	1.0	mg/L			10/31/17 16:41	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-43

Date Collected: 10/18/17 11:06
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-43

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/30/17 17:17	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/30/17 17:17	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/30/17 17:17	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
2-Butanone (MEK)	ND		10	10	ug/L			10/30/17 17:17	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
2-Hexanone	ND		10	10	ug/L			10/30/17 17:17	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/30/17 17:17	1
Acetone	ND		10	10	ug/L			10/30/17 17:17	1
Acrylonitrile	ND		10	10	ug/L			10/30/17 17:17	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/30/17 17:17	1
Benzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Bromobenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Bromoform	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Bromomethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Chloroethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Chloroform	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Chloromethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Dibromomethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-43

Date Collected: 10/18/17 11:06
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-43

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Ethyl ether	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Iodomethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Methylene Chloride	ND		2.5	2.5	ug/L			10/30/17 17:17	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/30/17 17:17	1
Naphthalene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
o-Xylene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Styrene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
t-Butanol	ND		10	10	ug/L			10/30/17 17:17	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Toluene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 17:17	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/30/17 17:17	1
Trichloroethene	ND		0.20	0.20	ug/L			10/30/17 17:17	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 17:17	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/30/17 17:17	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/30/17 17:17	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/30/17 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/30/17 17:17*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*10/30/17 17:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.3**		1.0	1.0	mg/L			10/31/17 16:49	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-44

Date Collected: 10/18/17 11:30
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-44

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/31/17 00:02	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 00:02	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 00:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 00:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 00:02	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 00:02	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 00:02	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 00:02	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 00:02	1
Acetone	ND	*	10	10	ug/L			10/31/17 00:02	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 00:02	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Bromomethane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 00:02	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 00:02	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-44

Date Collected: 10/18/17 11:30
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-44

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 00:02	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 00:02	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 00:02	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 00:02	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 00:02	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 00:02	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 00:02	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 00:02	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 00:02	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 00:02	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*10/31/17 00:02*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*10/31/17 00:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.6**		1.0	1.0	mg/L			10/31/17 16:57	2

Client Sample ID: W-171018-MB-45

Lab Sample ID: 480-126333-45

Date Collected: 10/18/17 11:36

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/31/17 00:32	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 00:32	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 00:32	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 00:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 00:32	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 00:32	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 00:32	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 00:32	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 00:32	1
Acetone	ND	*	10	10	ug/L			10/31/17 00:32	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 00:32	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Bromomethane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 00:32	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 00:32	1

Client Sample ID: W-171018-MB-45

Lab Sample ID: 480-126333-45

Date Collected: 10/18/17 11:36

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 00:32	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 00:32	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 00:32	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 00:32	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 00:32	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 00:32	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 00:32	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 00:32	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 00:32	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 00:32	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*10/31/17 00:32*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*10/31/17 00:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.6**		1.0	1.0	mg/L			10/31/17 17:05	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-46

Lab Sample ID: 480-126333-46

Date Collected: 10/18/17 11:41

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/31/17 01:02	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 01:02	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 01:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 01:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 01:02	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 01:02	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 01:02	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 01:02	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 01:02	1
Acetone	ND	*	10	10	ug/L			10/31/17 01:02	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 01:02	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Bromomethane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 01:02	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 01:02	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-46

Date Collected: 10/18/17 11:41
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-46

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 01:02	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 01:02	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 01:02	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 01:02	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 01:02	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 01:02	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 01:02	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 01:02	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 01:02	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 01:02	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*		*10/31/17 01:02*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*10/31/17 01:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.6**		1.0	1.0	mg/L			10/31/17 17:13	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-47

Lab Sample ID: 480-126333-47

Date Collected: 10/18/17 12:45
Date Received: 10/23/17 09:30

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.19	J *	0.50	0.18	ug/L			10/31/17 01:32	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 01:32	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 01:32	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 01:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 01:32	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 01:32	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 01:32	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 01:32	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 01:32	1
Acetone	ND	*	10	10	ug/L			10/31/17 01:32	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 01:32	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Bromomethane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 01:32	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 01:32	1

Client Sample ID: W-171018-MB-47

Lab Sample ID: 480-126333-47

Date Collected: 10/18/17 12:45

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 01:32	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 01:32	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 01:32	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 01:32	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 01:32	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 01:32	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 01:32	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 01:32	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 01:32	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 01:32	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/31/17 01:32*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*10/31/17 01:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.5**		1.0	1.0	mg/L			10/31/17 17:22	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-48

Lab Sample ID: 480-126333-48

Date Collected: 10/18/17 12:50

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/31/17 02:01	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 02:01	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 02:01	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 02:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 02:01	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 02:01	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 02:01	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 02:01	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 02:01	1
Acetone	ND	*	10	10	ug/L			10/31/17 02:01	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 02:01	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Bromomethane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 02:01	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 02:01	1

Client Sample ID: W-171018-MB-48

Lab Sample ID: 480-126333-48

Date Collected: 10/18/17 12:50

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 02:01	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 02:01	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 02:01	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 02:01	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 02:01	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 02:01	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 02:01	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 02:01	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 02:01	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 02:01	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/31/17 02:01*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*10/31/17 02:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.3**		1.0	1.0	mg/L			10/31/17 18:27	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-49

Lab Sample ID: 480-126333-49

Date Collected: 10/18/17 12:55
Date Received: 10/23/17 09:30

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/31/17 02:32	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 02:32	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 02:32	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 02:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 02:32	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 02:32	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 02:32	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 02:32	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 02:32	1
Acetone	ND	*	10	10	ug/L			10/31/17 02:32	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 02:32	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Bromomethane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 02:32	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 02:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-49

Date Collected: 10/18/17 12:55
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-49

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 02:32	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 02:32	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 02:32	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 02:32	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 02:32	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 02:32	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 02:32	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 02:32	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 02:32	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 02:32	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/31/17 02:32*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*10/31/17 02:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.1**		1.0	1.0	mg/L			10/31/17 18:35	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-50

Lab Sample ID: 480-126333-50

Date Collected: 10/18/17 12:56
Matrix: Water
Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/31/17 03:02	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 03:02	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 03:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 03:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 03:02	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 03:02	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 03:02	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 03:02	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 03:02	1
Acetone	ND	*	10	10	ug/L			10/31/17 03:02	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 03:02	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Bromomethane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 03:02	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 03:02	1

Client Sample ID: W-171018-MB-50

Lab Sample ID: 480-126333-50

Date Collected: 10/18/17 12:56

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 03:02	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 03:02	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 03:02	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 03:02	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 03:02	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 03:02	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 03:02	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 03:02	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 03:02	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 03:02	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/31/17 03:02*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*10/31/17 03:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.1**		1.0	1.0	mg/L			10/31/17 18:43	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-51

Lab Sample ID: 480-126333-51

Date Collected: 10/18/17 13:20

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/31/17 03:32	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 03:32	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 03:32	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 03:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 03:32	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 03:32	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 03:32	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 03:32	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 03:32	1
Acetone	ND	*	10	10	ug/L			10/31/17 03:32	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 03:32	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Bromomethane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 03:32	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 03:32	1

Client Sample ID: W-171018-MB-51

Lab Sample ID: 480-126333-51

Date Collected: 10/18/17 13:20

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 03:32	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 03:32	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 03:32	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 03:32	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 03:32	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 03:32	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 03:32	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 03:32	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 03:32	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 03:32	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*10/31/17 03:32*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*10/31/17 03:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.2**		1.0	1.0	mg/L			10/31/17 18:51	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-52

Lab Sample ID: 480-126333-52

Date Collected: 10/18/17 13:22
Matrix: Water
Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/31/17 04:01	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 04:01	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 04:01	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 04:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 04:01	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 04:01	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 04:01	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 04:01	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 04:01	1
Acetone	ND	*	10	10	ug/L			10/31/17 04:01	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 04:01	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Bromomethane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 04:01	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 04:01	1

Client Sample ID: W-171018-MB-52

Lab Sample ID: 480-126333-52

Date Collected: 10/18/17 13:22

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 04:01	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 04:01	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 04:01	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 04:01	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 04:01	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 04:01	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 04:01	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 04:01	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 04:01	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 04:01	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/31/17 04:01*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*10/31/17 04:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			10/31/17 18:59	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-53

Date Collected: 10/18/17 13:27
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-53

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/31/17 04:31	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 04:31	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 04:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 04:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 04:31	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 04:31	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 04:31	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 04:31	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 04:31	1
Acetone	ND	*	10	10	ug/L			10/31/17 04:31	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 04:31	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Bromomethane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 04:31	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 04:31	1

Client Sample ID: W-171018-MB-53

Lab Sample ID: 480-126333-53

Date Collected: 10/18/17 13:27

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 04:31	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 04:31	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 04:31	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 04:31	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 04:31	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 04:31	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 04:31	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 04:31	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 04:31	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 04:31	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/31/17 04:31*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*10/31/17 04:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.2**		1.0	1.0	mg/L			10/31/17 19:48	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-54

Lab Sample ID: 480-126333-54

Date Collected: 10/18/17 13:31

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/31/17 05:01	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 05:01	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 05:01	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 05:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 05:01	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 05:01	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
2,2-Dichloropropane	ND	* F2	0.50	0.50	ug/L			10/31/17 05:01	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 05:01	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 05:01	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 05:01	1
Acetone	ND	*	10	10	ug/L			10/31/17 05:01	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 05:01	1
Allyl chloride	ND	* F1	0.50	0.50	ug/L			10/31/17 05:01	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Bromomethane	ND	* F1	0.50	0.50	ug/L			10/31/17 05:01	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Chloroethane	ND	* F1	0.50	0.50	ug/L			10/31/17 05:01	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 05:01	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 05:01	1

Client Sample ID: W-171018-MB-54

Lab Sample ID: 480-126333-54

Date Collected: 10/18/17 13:31

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 05:01	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 05:01	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 05:01	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
Styrene	ND	F1	0.50	0.50	ug/L			10/31/17 05:01	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 05:01	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 05:01	1
trans-1,4-Dichloro-2-butene	ND	F1	2.5	2.5	ug/L			10/31/17 05:01	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 05:01	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 05:01	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 05:01	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 05:01	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*10/31/17 05:01*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*10/31/17 05:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.5**		1.0	1.0	mg/L			10/31/17 15:36	2

Client Sample ID: W-171018-MB-55

Lab Sample ID: 480-126333-55

Date Collected: 10/18/17 14:12

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/31/17 05:30	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 05:30	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 05:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 05:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 05:30	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 05:30	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 05:30	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 05:30	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 05:30	1
Acetone	ND	*	10	10	ug/L			10/31/17 05:30	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 05:30	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Bromomethane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 05:30	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 05:30	1

Client Sample ID: W-171018-MB-55

Lab Sample ID: 480-126333-55

Date Collected: 10/18/17 14:12

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 05:30	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 05:30	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 05:30	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 05:30	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 05:30	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 05:30	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 05:30	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 05:30	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 05:30	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 05:30	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/31/17 05:30*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*10/31/17 05:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.8**		1.0	1.0	mg/L			10/31/17 19:56	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-56

Lab Sample ID: 480-126333-56

Date Collected: 10/18/17 14:19

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/31/17 06:00	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 06:00	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 06:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 06:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 06:00	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 06:00	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 06:00	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 06:00	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 06:00	1
Acetone	ND	*	10	10	ug/L			10/31/17 06:00	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 06:00	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Bromomethane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 06:00	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 06:00	1

Client Sample ID: W-171018-MB-56

Lab Sample ID: 480-126333-56

Date Collected: 10/18/17 14:19

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 06:00	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 06:00	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 06:00	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 06:00	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 06:00	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 06:00	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 06:00	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 06:00	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 06:00	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 06:00	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 06:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*10/31/17 06:00*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*10/31/17 06:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.2**		1.0	1.0	mg/L			10/31/17 20:04	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-57

Lab Sample ID: 480-126333-57

Date Collected: 10/18/17 14:22

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	*	0.50	0.18	ug/L			10/31/17 06:29	1
cis-1,2-Dichloroethene	ND	*	0.50	0.12	ug/L			10/31/17 06:29	1
Vinyl chloride	ND	*	0.20	0.18	ug/L			10/31/17 06:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,1,1-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 06:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 06:29	1
1,1,2-Trichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,1-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,1-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,2,3-Trichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 06:29	1
1,2-Dibromoethane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,2-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,2-Dichloroethane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
1,3-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,3-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
1,4-Dichlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
2,2-Dichloropropane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
2-Butanone (MEK)	ND	*	10	10	ug/L			10/31/17 06:29	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
2-Hexanone	ND	*	10	10	ug/L			10/31/17 06:29	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	10	ug/L			10/31/17 06:29	1
Acetone	ND	*	10	10	ug/L			10/31/17 06:29	1
Acrylonitrile	ND	*	10	10	ug/L			10/31/17 06:29	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Benzene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Bromobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Bromochloromethane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Bromoform	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Bromomethane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Carbon disulfide	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Chlorobenzene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Chlorodibromomethane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Chloroethane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Chloroform	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Chloromethane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
cis-1,3-Dichloropropene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 06:29	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 06:29	1

Client Sample ID: W-171018-MB-57

Lab Sample ID: 480-126333-57

Date Collected: 10/18/17 14:22

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 06:29	1
Dichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Ethyl ether	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
Iodomethane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
Methyl tert-butyl ether	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 06:29	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 06:29	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
t-Butanol	ND	*	10	10	ug/L			10/31/17 06:29	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
Tetrachloroethene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Toluene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
trans-1,2-Dichloroethene	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 06:29	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 06:29	1
Trichloroethene	ND	*	0.20	0.20	ug/L			10/31/17 06:29	1
Trichlorofluoromethane	ND	*	0.50	0.50	ug/L			10/31/17 06:29	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			10/31/17 06:29	1
Vinyl acetate	ND	*	2.5	2.5	ug/L			10/31/17 06:29	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 06:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/31/17 06:29*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*10/31/17 06:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.4**		1.0	1.0	mg/L			10/31/17 20:12	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-58

Lab Sample ID: 480-126333-58

Date Collected: 10/19/17 08:04

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/31/17 16:29	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/31/17 16:29	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/31/17 16:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50	0.50	ug/L			10/31/17 16:29	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
2-Butanone (MEK)	ND		10	10	ug/L			10/31/17 16:29	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
2-Hexanone	ND		10	10	ug/L			10/31/17 16:29	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/31/17 16:29	1
Acetone	ND		10	10	ug/L			10/31/17 16:29	1
Acrylonitrile	ND		10	10	ug/L			10/31/17 16:29	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 16:29	1
Benzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Bromobenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Bromoform	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Bromomethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 16:29	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Chloroethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Chloroform	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Chloromethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1

Client Sample ID: W-171019-MB-58

Lab Sample ID: 480-126333-58

Date Collected: 10/19/17 08:04

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Ethyl ether	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Iodomethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 16:29	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 16:29	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
t-Butanol	ND		10	10	ug/L			10/31/17 16:29	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Toluene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 16:29	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 16:29	1
Trichloroethene	ND		0.20	0.20	ug/L			10/31/17 16:29	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 16:29	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/31/17 16:29	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/31/17 16:29	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*10/31/17 16:29*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*10/31/17 16:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.9**		1.0	1.0	mg/L			10/31/17 20:21	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-59

Lab Sample ID: 480-126333-59

Date Collected: 10/19/17 08:40

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/31/17 16:58	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/31/17 16:58	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/31/17 16:58	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50	0.50	ug/L			10/31/17 16:58	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
2-Butanone (MEK)	ND		10	10	ug/L			10/31/17 16:58	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
2-Hexanone	ND		10	10	ug/L			10/31/17 16:58	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/31/17 16:58	1
Acetone	ND		10	10	ug/L			10/31/17 16:58	1
Acrylonitrile	ND		10	10	ug/L			10/31/17 16:58	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 16:58	1
Benzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Bromobenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Bromoform	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Bromomethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 16:58	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Chloroethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Chloroform	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Chloromethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1

Client Sample ID: W-171019-MB-59

Lab Sample ID: 480-126333-59

Date Collected: 10/19/17 08:40

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Ethyl ether	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Iodomethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 16:58	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 16:58	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
t-Butanol	ND		10	10	ug/L			10/31/17 16:58	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Toluene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 16:58	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 16:58	1
Trichloroethene	ND		0.20	0.20	ug/L			10/31/17 16:58	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 16:58	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/31/17 16:58	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/31/17 16:58	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*10/31/17 16:58*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*10/31/17 16:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.6**		1.0	1.0	mg/L			10/31/17 20:29	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-60

Lab Sample ID: 480-126333-60

Date Collected: 10/19/17 08:45
Matrix: Water
Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/31/17 17:28	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/31/17 17:28	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/31/17 17:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50	0.50	ug/L			10/31/17 17:28	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
2-Butanone (MEK)	ND		10	10	ug/L			10/31/17 17:28	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
2-Hexanone	ND		10	10	ug/L			10/31/17 17:28	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/31/17 17:28	1
Acetone	ND		10	10	ug/L			10/31/17 17:28	1
Acrylonitrile	ND		10	10	ug/L			10/31/17 17:28	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 17:28	1
Benzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Bromobenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Bromoform	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Bromomethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 17:28	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Chloroethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Chloroform	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Chloromethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1

Client Sample ID: W-171019-MB-60

Lab Sample ID: 480-126333-60

Date Collected: 10/19/17 08:45

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Ethyl ether	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Iodomethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 17:28	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 17:28	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
t-Butanol	ND		10	10	ug/L			10/31/17 17:28	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Toluene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 17:28	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 17:28	1
Trichloroethene	ND		0.20	0.20	ug/L			10/31/17 17:28	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 17:28	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/31/17 17:28	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/31/17 17:28	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/31/17 17:28*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*10/31/17 17:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.8**		1.0	1.0	mg/L			10/31/17 20:37	2

Client Sample ID: W-171019-MB-61

Lab Sample ID: 480-126333-61

Date Collected: 10/19/17 08:49

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/31/17 17:58	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/31/17 17:58	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/31/17 17:58	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50	0.50	ug/L			10/31/17 17:58	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
2-Butanone (MEK)	ND		10	10	ug/L			10/31/17 17:58	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
2-Hexanone	ND		10	10	ug/L			10/31/17 17:58	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/31/17 17:58	1
Acetone	ND		10	10	ug/L			10/31/17 17:58	1
Acrylonitrile	ND		10	10	ug/L			10/31/17 17:58	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 17:58	1
Benzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Bromobenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Bromoform	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Bromomethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 17:58	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Chloroethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Chloroform	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Chloromethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1

Client Sample ID: W-171019-MB-61

Lab Sample ID: 480-126333-61

Date Collected: 10/19/17 08:49

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Ethyl ether	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Iodomethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 17:58	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 17:58	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
t-Butanol	ND		10	10	ug/L			10/31/17 17:58	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Toluene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 17:58	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 17:58	1
Trichloroethene	ND		0.20	0.20	ug/L			10/31/17 17:58	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 17:58	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/31/17 17:58	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/31/17 17:58	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/31/17 17:58*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*10/31/17 17:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.7**		1.0	1.0	mg/L			10/31/17 20:45	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-62

Lab Sample ID: 480-126333-62

Date Collected: 10/19/17 08:50

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/31/17 18:27	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/31/17 18:27	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/31/17 18:27	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50	0.50	ug/L			10/31/17 18:27	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
2-Butanone (MEK)	ND		10	10	ug/L			10/31/17 18:27	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
2-Hexanone	ND		10	10	ug/L			10/31/17 18:27	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/31/17 18:27	1
Acetone	ND		10	10	ug/L			10/31/17 18:27	1
Acrylonitrile	ND		10	10	ug/L			10/31/17 18:27	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 18:27	1
Benzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Bromobenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Bromoform	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Bromomethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 18:27	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Chloroethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Chloroform	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Chloromethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1

Client Sample ID: W-171019-MB-62

Lab Sample ID: 480-126333-62

Date Collected: 10/19/17 08:50

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Ethyl ether	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Iodomethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 18:27	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 18:27	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
t-Butanol	ND		10	10	ug/L			10/31/17 18:27	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Toluene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 18:27	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 18:27	1
Trichloroethene	ND		0.20	0.20	ug/L			10/31/17 18:27	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 18:27	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/31/17 18:27	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/31/17 18:27	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/31/17 18:27*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*10/31/17 18:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.7**		1.0	1.0	mg/L			10/31/17 20:53	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-63

Lab Sample ID: 480-126333-63

Date Collected: 10/19/17 09:20
Matrix: Water
Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/31/17 18:56	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/31/17 18:56	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/31/17 18:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50	0.50	ug/L			10/31/17 18:56	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
2-Butanone (MEK)	ND		10	10	ug/L			10/31/17 18:56	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
2-Hexanone	ND		10	10	ug/L			10/31/17 18:56	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/31/17 18:56	1
Acetone	ND		10	10	ug/L			10/31/17 18:56	1
Acrylonitrile	ND		10	10	ug/L			10/31/17 18:56	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 18:56	1
Benzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Bromobenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Bromoform	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Bromomethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 18:56	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Chloroethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Chloroform	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Chloromethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1

Client Sample ID: W-171019-MB-63

Lab Sample ID: 480-126333-63

Date Collected: 10/19/17 09:20

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Ethyl ether	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Iodomethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 18:56	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 18:56	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
t-Butanol	ND		10	10	ug/L			10/31/17 18:56	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Toluene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 18:56	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 18:56	1
Trichloroethene	ND		0.20	0.20	ug/L			10/31/17 18:56	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 18:56	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/31/17 18:56	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/31/17 18:56	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/31/17 18:56*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*10/31/17 18:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69.2**		1.0	1.0	mg/L			10/31/17 21:42	2

Client Sample ID: W-171019-MB-64

Lab Sample ID: 480-126333-64

Date Collected: 10/19/17 09:22

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/31/17 19:26	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/31/17 19:26	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/31/17 19:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50	0.50	ug/L			10/31/17 19:26	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
2-Butanone (MEK)	ND		10	10	ug/L			10/31/17 19:26	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
2-Hexanone	ND		10	10	ug/L			10/31/17 19:26	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/31/17 19:26	1
Acetone	ND		10	10	ug/L			10/31/17 19:26	1
Acrylonitrile	ND		10	10	ug/L			10/31/17 19:26	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 19:26	1
Benzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Bromobenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Bromoform	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Bromomethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 19:26	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Chloroethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Chloroform	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Chloromethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1

Client Sample ID: W-171019-MB-64

Lab Sample ID: 480-126333-64

Date Collected: 10/19/17 09:22

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Ethyl ether	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Iodomethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 19:26	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 19:26	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
t-Butanol	ND		10	10	ug/L			10/31/17 19:26	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Toluene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 19:26	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 19:26	1
Trichloroethene	ND		0.20	0.20	ug/L			10/31/17 19:26	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 19:26	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/31/17 19:26	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/31/17 19:26	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/31/17 19:26*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*10/31/17 19:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			10/31/17 21:50	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-65

Lab Sample ID: 480-126333-65

Date Collected: 10/19/17 09:45

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/31/17 19:56	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/31/17 19:56	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/31/17 19:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50	0.50	ug/L			10/31/17 19:56	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
2-Butanone (MEK)	ND		10	10	ug/L			10/31/17 19:56	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
2-Hexanone	ND		10	10	ug/L			10/31/17 19:56	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/31/17 19:56	1
Acetone	ND		10	10	ug/L			10/31/17 19:56	1
Acrylonitrile	ND		10	10	ug/L			10/31/17 19:56	1
Allyl chloride	ND	*	0.50	0.50	ug/L			10/31/17 19:56	1
Benzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Bromobenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Bromoform	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Bromomethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Carbon tetrachloride	ND	*	0.50	0.50	ug/L			10/31/17 19:56	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Chloroethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Chloroform	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Chloromethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1

Client Sample ID: W-171019-MB-65

Lab Sample ID: 480-126333-65

Date Collected: 10/19/17 09:45

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Ethyl ether	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Iodomethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Methylene Chloride	ND	*	2.5	2.5	ug/L			10/31/17 19:56	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 19:56	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
t-Butanol	ND		10	10	ug/L			10/31/17 19:56	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Toluene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 19:56	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 19:56	1
Trichloroethene	ND		0.20	0.20	ug/L			10/31/17 19:56	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 19:56	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/31/17 19:56	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/31/17 19:56	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*10/31/17 19:56*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*10/31/17 19:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.2**		1.0	1.0	mg/L			10/31/17 21:58	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-66

Lab Sample ID: 480-126333-66

Date Collected: 10/19/17 09:55
Matrix: Water
Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.79**		0.50	0.18	ug/L			11/01/17 02:55	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 02:55	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 02:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 02:55	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
2-Hexanone	ND		10	10	ug/L			11/01/17 02:55	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 02:55	1
Acetone	ND		10	10	ug/L			11/01/17 02:55	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 02:55	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1

Client Sample ID: W-171019-MB-66

Lab Sample ID: 480-126333-66

Date Collected: 10/19/17 09:55

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**1.0**		0.50	0.50	ug/L			11/01/17 02:55	1
Dichlorofluoromethane	**0.57**		0.50	0.50	ug/L			11/01/17 02:55	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 02:55	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 02:55	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
t-Butanol	ND		10	10	ug/L			11/01/17 02:55	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 02:55	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 02:55	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 02:55	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 02:55	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 02:55	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 02:55	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*11/01/17 02:55*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*11/01/17 02:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.4**		1.0	1.0	mg/L			10/31/17 22:06	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-67

Lab Sample ID: 480-126333-67

Date Collected: 10/19/17 10:00

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.67**		0.50	0.18	ug/L			11/01/17 03:25	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 03:25	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 03:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 03:25	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
2-Hexanone	ND		10	10	ug/L			11/01/17 03:25	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 03:25	1
Acetone	ND		10	10	ug/L			11/01/17 03:25	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 03:25	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-67

Date Collected: 10/19/17 10:00
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-67

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.60**		0.50	0.50	ug/L			11/01/17 03:25	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 03:25	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 03:25	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
t-Butanol	ND		10	10	ug/L			11/01/17 03:25	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 03:25	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 03:25	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 03:25	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 03:25	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 03:25	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 03:25	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*11/01/17 03:25*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*11/01/17 03:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.3**		1.0	1.0	mg/L			10/31/17 22:15	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-68

Lab Sample ID: 480-126333-68

Date Collected: 10/19/17 10:28

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 03:55	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 03:55	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 03:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 03:55	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
2-Hexanone	ND		10	10	ug/L			11/01/17 03:55	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 03:55	1
Acetone	ND		10	10	ug/L			11/01/17 03:55	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 03:55	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-68

Date Collected: 10/19/17 10:28
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-68

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 03:55	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 03:55	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
t-Butanol	ND		10	10	ug/L			11/01/17 03:55	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 03:55	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 03:55	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 03:55	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 03:55	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 03:55	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 03:55	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*11/01/17 03:55*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*11/01/17 03:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.8**		1.0	1.0	mg/L			10/31/17 22:23	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-69

Lab Sample ID: 480-126333-69

Date Collected: 10/19/17 10:35

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 04:25	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 04:25	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 04:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 04:25	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
2-Hexanone	ND		10	10	ug/L			11/01/17 04:25	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 04:25	1
Acetone	ND		10	10	ug/L			11/01/17 04:25	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 04:25	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1

Client Sample ID: W-171019-MB-69

Lab Sample ID: 480-126333-69

Date Collected: 10/19/17 10:35

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 04:25	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 04:25	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
t-Butanol	ND		10	10	ug/L			11/01/17 04:25	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 04:25	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 04:25	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 04:25	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 04:25	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 04:25	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 04:25	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*11/01/17 04:25*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*11/01/17 04:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.2**		1.0	1.0	mg/L			10/31/17 23:03	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-70

Date Collected: 10/19/17 12:04
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-70

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 04:55	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 04:55	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 04:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 04:55	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
2-Hexanone	ND		10	10	ug/L			11/01/17 04:55	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 04:55	1
Acetone	ND		10	10	ug/L			11/01/17 04:55	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 04:55	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1

Client Sample ID: W-171019-MB-70

Lab Sample ID: 480-126333-70

Date Collected: 10/19/17 12:04

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 04:55	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 04:55	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
t-Butanol	ND		10	10	ug/L			11/01/17 04:55	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 04:55	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 04:55	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 04:55	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 04:55	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 04:55	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 04:55	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*11/01/17 04:55*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*11/01/17 04:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.8**		1.0	1.0	mg/L			10/31/17 23:12	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-71

Lab Sample ID: 480-126333-71

Date Collected: 10/19/17 12:40
Matrix: Water
Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.28**	**J**	0.50	0.18	ug/L			11/01/17 05:25	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 05:25	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 05:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 05:25	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
2-Hexanone	ND		10	10	ug/L			11/01/17 05:25	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 05:25	1
Acetone	ND		10	10	ug/L			11/01/17 05:25	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 05:25	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1

Client Sample ID: W-171019-MB-71

Lab Sample ID: 480-126333-71

Date Collected: 10/19/17 12:40

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 05:25	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 05:25	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
t-Butanol	ND		10	10	ug/L			11/01/17 05:25	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 05:25	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 05:25	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 05:25	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 05:25	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 05:25	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 05:25	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*11/01/17 05:25*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*11/01/17 05:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.5**		1.0	1.0	mg/L			10/31/17 23:20	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-72

Lab Sample ID: 480-126333-72

Date Collected: 10/19/17 12:45
Matrix: Water
Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 05:55	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 05:55	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 05:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 05:55	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
2-Hexanone	ND		10	10	ug/L			11/01/17 05:55	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 05:55	1
Acetone	ND		10	10	ug/L			11/01/17 05:55	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 05:55	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1

Client Sample ID: W-171019-MB-72

Lab Sample ID: 480-126333-72

Date Collected: 10/19/17 12:45

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 05:55	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 05:55	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
t-Butanol	ND		10	10	ug/L			11/01/17 05:55	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 05:55	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 05:55	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 05:55	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 05:55	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 05:55	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 05:55	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 05:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*11/01/17 05:55*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*11/01/17 05:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**0.50**		0.50	0.50	mg/L			10/31/17 23:28	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-73

Lab Sample ID: 480-126333-73

Date Collected: 10/19/17 13:05

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 06:24	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 06:24	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 06:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 06:24	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
2-Hexanone	ND		10	10	ug/L			11/01/17 06:24	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 06:24	1
Acetone	ND		10	10	ug/L			11/01/17 06:24	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 06:24	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Bromomethane	ND	F1	0.50	0.50	ug/L			11/01/17 06:24	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Chloroethane	ND	F1	0.50	0.50	ug/L			11/01/17 06:24	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-73

Date Collected: 10/19/17 13:05
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-73

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 06:24	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 06:24	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
n-Butylbenzene	ND	F1	0.50	0.50	ug/L			11/01/17 06:24	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
t-Butanol	ND		10	10	ug/L			11/01/17 06:24	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 06:24	1
trans-1,4-Dichloro-2-butene	ND	F1	2.5	2.5	ug/L			11/01/17 06:24	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 06:24	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 06:24	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 06:24	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 06:24	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 06:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*11/01/17 06:24*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*11/01/17 06:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.3**		1.0	1.0	mg/L			10/31/17 19:07	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-74

Date Collected: 10/19/17 13:06
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-74

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 06:54	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 06:54	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 06:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 06:54	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
2-Hexanone	ND		10	10	ug/L			11/01/17 06:54	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 06:54	1
Acetone	ND		10	10	ug/L			11/01/17 06:54	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 06:54	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-74

Date Collected: 10/19/17 13:06
Date Received: 10/23/17 09:30

Lab Sample ID: 480-126333-74

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 06:54	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 06:54	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
t-Butanol	ND		10	10	ug/L			11/01/17 06:54	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 06:54	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 06:54	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 06:54	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 06:54	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 06:54	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 06:54	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 06:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*11/01/17 06:54*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*11/01/17 06:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.4**		1.0	1.0	mg/L			10/31/17 23:36	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-75

Lab Sample ID: 480-126333-75

Date Collected: 10/19/17 13:30
Matrix: Water
Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 07:24	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 07:24	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 07:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 07:24	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
2-Hexanone	ND		10	10	ug/L			11/01/17 07:24	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 07:24	1
Acetone	ND		10	10	ug/L			11/01/17 07:24	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 07:24	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1

Client Sample ID: W-171019-MB-75

Lab Sample ID: 480-126333-75

Date Collected: 10/19/17 13:30

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 07:24	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 07:24	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
t-Butanol	ND		10	10	ug/L			11/01/17 07:24	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 07:24	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 07:24	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 07:24	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 07:24	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 07:24	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 07:24	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 07:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*11/01/17 07:24*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*11/01/17 07:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.7**		1.0	1.0	mg/L			10/31/17 23:44	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-76

Lab Sample ID: 480-126333-76

Date Collected: 10/19/17 13:35

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 07:54	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 07:54	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 07:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 07:54	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
2-Hexanone	ND		10	10	ug/L			11/01/17 07:54	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 07:54	1
Acetone	ND		10	10	ug/L			11/01/17 07:54	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 07:54	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1

Client Sample ID: W-171019-MB-76

Lab Sample ID: 480-126333-76

Date Collected: 10/19/17 13:35

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 07:54	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 07:54	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
t-Butanol	ND		10	10	ug/L			11/01/17 07:54	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 07:54	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 07:54	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 07:54	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 07:54	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 07:54	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 07:54	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 07:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*11/01/17 07:54*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*11/01/17 07:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.5**		1.0	1.0	mg/L			10/31/17 23:52	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-77

Lab Sample ID: 480-126333-77

Date Collected: 10/19/17 13:37

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 08:24	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 08:24	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 08:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 08:24	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
2-Hexanone	ND		10	10	ug/L			11/01/17 08:24	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 08:24	1
Acetone	ND		10	10	ug/L			11/01/17 08:24	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 08:24	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1

Client Sample ID: W-171019-MB-77

Lab Sample ID: 480-126333-77

Date Collected: 10/19/17 13:37

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 08:24	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 08:24	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
t-Butanol	ND		10	10	ug/L			11/01/17 08:24	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 08:24	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 08:24	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 08:24	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 08:24	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 08:24	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 08:24	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*11/01/17 08:24*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*11/01/17 08:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			11/01/17 00:00	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-126333-78

Date Collected: 10/19/17 00:00

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 08:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 08:53	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 08:53	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 08:53	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
2-Hexanone	ND		10	10	ug/L			11/01/17 08:53	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 08:53	1
Acetone	ND		10	10	ug/L			11/01/17 08:53	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 08:53	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-126333-78

Date Collected: 10/19/17 00:00

Matrix: Water

Date Received: 10/23/17 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 08:53	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 08:53	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
t-Butanol	ND		10	10	ug/L			11/01/17 08:53	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 08:53	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 08:53	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 08:53	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 08:53	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 08:53	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 08:53	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 08:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*11/01/17 08:53*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*11/01/17 08:53*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)						
480-126333-1	W-171016-MB-01	101	98						
480-126333-2	W-171016-MB-02	100	98						
480-126333-3	W-171016-MB-03	102	98						
480-126333-4	W-171016-MB-04	100	98						
480-126333-5	W-171017-MB-05	100	98						
480-126333-6	W-171017-MB-06	101	97						
480-126333-7	W-171017-MB-07	99	97						
480-126333-8	W-171017-MB-08	102	98						
480-126333-9	W-171017-MB-09	100	98						
480-126333-10	W-171017-MB-10	102	98						
480-126333-11	W-171017-MB-11	101	98						
480-126333-11 MS	W-171017-MB-11	102	99						
480-126333-11 MSD	W-171017-MB-11	99	98						
480-126333-12	W-171017-MB-12	102	98						
480-126333-13	W-171017-MB-13	99	100						
480-126333-14	W-171017-MB-14	102	98						
480-126333-15	W-171017-MB-15	102	99						
480-126333-16	W-171017-MB-16	100	99						
480-126333-17	W-171017-MB-17	103	99						
480-126333-18	W-171017-MB-18	101	97						
480-126333-19	W-171017-MB-19	100	96						
480-126333-20	W-171017-MB-20	101	99						
480-126333-21	W-171017-MB-21	102	97						
480-126333-22	W-171017-MB-22	103	98						
480-126333-23	W-171017-MB-23	99	99						
480-126333-24	W-171017-MB-24	100	97						
480-126333-25	W-171017-MB-25	101	97						
480-126333-26	W-171017-MB-26	101	97						
480-126333-27	W-171017-MB-27	99	98						
480-126333-28	W-171017-MB-28	102	98						
480-126333-29	W-171017-MB-29	102	97						
480-126333-30	W-171017-MB-30	101	96						
480-126333-30 MS	W-171017-MB-30	102	92						
480-126333-30 MSD	W-171017-MB-30	101	92						
480-126333-31	W-171018-MB-31	102	94						
480-126333-32	W-171018-MB-32	101	97						
480-126333-33	W-171018-MB-33	101	98						
480-126333-34	W-171018-MB-34	100	96						
480-126333-35	W-171018-MB-35	102	98						
480-126333-36	W-171018-MB-36	101	98						
480-126333-37	W-171018-MB-37	101	90						
480-126333-38	W-171018-MB-38	98	92						
480-126333-39	W-171018-MB-39	99	90						
480-126333-40	W-171018-MB-40	99	91						
480-126333-41	W-171018-MB-41	100	92						
480-126333-42	W-171018-MB-42	100	92						
480-126333-43	W-171018-MB-43	101	91						
480-126333-44	W-171018-MB-44	99	91						
480-126333-45	W-171018-MB-45	99	90						

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)						
480-126333-46	W-171018-MB-46	97	91						
480-126333-47	W-171018-MB-47	100	92						
480-126333-48	W-171018-MB-48	100	90						
480-126333-49	W-171018-MB-49	101	92						
480-126333-50	W-171018-MB-50	101	90						
480-126333-51	W-171018-MB-51	98	89						
480-126333-52	W-171018-MB-52	101	90						
480-126333-53	W-171018-MB-53	101	91						
480-126333-54	W-171018-MB-54	99	90						
480-126333-54 MS	W-171018-MB-54	100	91						
480-126333-54 MSD	W-171018-MB-54	99	91						
480-126333-55	W-171018-MB-55	101	92						
480-126333-56	W-171018-MB-56	99	89						
480-126333-57	W-171018-MB-57	100	91						
480-126333-58	W-171019-MB-58	99	90						
480-126333-59	W-171019-MB-59	102	92						
480-126333-60	W-171019-MB-60	101	91						
480-126333-61	W-171019-MB-61	101	90						
480-126333-62	W-171019-MB-62	100	90						
480-126333-63	W-171019-MB-63	100	89						
480-126333-64	W-171019-MB-64	101	91						
480-126333-65	W-171019-MB-65	102	89						
480-126333-66	W-171019-MB-66	101	89						
480-126333-67	W-171019-MB-67	98	90						
480-126333-68	W-171019-MB-68	98	91						
480-126333-69	W-171019-MB-69	99	89						
480-126333-70	W-171019-MB-70	101	92						
480-126333-71	W-171019-MB-71	100	91						
480-126333-72	W-171019-MB-72	101	89						
480-126333-73	W-171019-MB-73	101	90						
480-126333-73 MS	W-171019-MB-73	100	89						
480-126333-73 MSD	W-171019-MB-73	98	91						
480-126333-74	W-171019-MB-74	100	90						
480-126333-75	W-171019-MB-75	101	91						
480-126333-76	W-171019-MB-76	100	90						
480-126333-77	W-171019-MB-77	104	91						
480-126333-78	TRIP BLANK	101	90						
LCS 480-383924/5	Lab Control Sample	98	98						
LCS 480-384183/4	Lab Control Sample	101	97						
LCS 480-384427/4	Lab Control Sample	99	101						
LCS 480-384565/4	Lab Control Sample	99	92						
LCS 480-384694/4	Lab Control Sample	100	91						
LCS 480-384754/4	Lab Control Sample	99	90						
LCS 480-384903/4	Lab Control Sample	99	92						
LCSD 480-383924/6	Lab Control Sample Dup	102	98						
LCSD 480-384183/5	Lab Control Sample Dup	101	100						
LCSD 480-384427/5	Lab Control Sample Dup	101	99						
LCSD 480-384565/5	Lab Control Sample Dup	101	92						
LCSD 480-384694/5	Lab Control Sample Dup	100	91						

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)						
LCSD 480-384754/5	Lab Control Sample Dup	97	92						
LCSD 480-384903/5	Lab Control Sample Dup	100	92						
LLCS 480-383924/7	Lab Control Sample	102	100						
LLCS 480-384183/6	Lab Control Sample	99	98						
LLCS 480-384427/6	Lab Control Sample	99	98						
LLCS 480-384565/6	Lab Control Sample	98	92						
LLCS 480-384694/6	Lab Control Sample	102	93						
LLCS 480-384754/6	Lab Control Sample	99	92						
LLCS 480-384903/6	Lab Control Sample	101	89						
MB 480-383924/8	Method Blank	100	99						
MB 480-384183/7	Method Blank	100	97						
MB 480-384427/7	Method Blank	101	98						
MB 480-384565/7	Method Blank	99	93						
MB 480-384694/7	Method Blank	100	91						
MB 480-384754/7	Method Blank	103	91						
MB 480-384903/7	Method Blank	103	89						

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4
BFB = 4-Bromofluorobenzene (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-383924/8
Matrix: Water
Analysis Batch: 383924

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/26/17 13:50	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/26/17 13:50	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/26/17 13:50	1

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
2-Butanone (MEK)	ND		10	10	ug/L			10/26/17 13:50	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
2-Hexanone	ND		10	10	ug/L			10/26/17 13:50	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/26/17 13:50	1
Acetone	ND		10	10	ug/L			10/26/17 13:50	1
Acrylonitrile	ND		10	10	ug/L			10/26/17 13:50	1
Allyl chloride	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Benzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Bromobenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Bromoform	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Bromomethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Chloroethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Chloroform	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Chloromethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 13:50	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-383924/8
Matrix: Water
Analysis Batch: 383924

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Ethyl ether	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Iodomethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Methylene Chloride	ND		2.5	2.5	ug/L			10/26/17 13:50	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/26/17 13:50	1
Naphthalene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
o-Xylene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Styrene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
t-Butanol	ND		10	10	ug/L			10/26/17 13:50	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Toluene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/26/17 13:50	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/26/17 13:50	1
Trichloroethene	ND		0.20	0.20	ug/L			10/26/17 13:50	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/26/17 13:50	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/26/17 13:50	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/26/17 13:50	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/26/17 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/26/17 13:50*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/26/17 13:50*	*1*

Lab Sample ID: LCS 480-383924/5
Matrix: Water
Analysis Batch: 383924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	4.00	3.90		ug/L		97	70 - 130
cis-1,2-Dichloroethene	4.00	3.85		ug/L		96	70 - 130
Vinyl chloride	4.00	3.66		ug/L		92	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.90		ug/L		97	70 - 130
1,1,1-Trichloroethane	4.00	3.72		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.78		ug/L		95	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-383924/5
Matrix: Water
Analysis Batch: 383924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	4.00	3.95		ug/L		99	70 - 130
1,1-Dichloroethene	4.00	3.47		ug/L		87	70 - 130
1,1-Dichloropropene	4.00	3.83		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	4.00	3.84		ug/L		96	70 - 130
1,2,3-Trichloropropane	4.00	3.87		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	4.00	3.81		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	4.00	3.76		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.69		ug/L		92	70 - 130
1,2-Dibromoethane	4.00	3.75		ug/L		94	70 - 130
1,2-Dichlorobenzene	4.00	3.78		ug/L		95	70 - 130
1,2-Dichloroethane	4.00	3.96		ug/L		99	70 - 130
1,2-Dichloropropane	4.00	3.83		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	4.00	3.73		ug/L		93	70 - 130
1,3-Dichlorobenzene	4.00	3.80		ug/L		95	70 - 130
1,3-Dichloropropane	4.00	3.84		ug/L		96	70 - 130
1,4-Dichlorobenzene	4.00	3.78		ug/L		95	70 - 130
2,2-Dichloropropane	4.00	4.18		ug/L		105	70 - 130
2-Butanone (MEK)	20.0	19.3		ug/L		97	70 - 130
2-Chlorotoluene	4.00	3.88		ug/L		97	70 - 130
2-Hexanone	20.0	18.1		ug/L		90	70 - 130
4-Chlorotoluene	4.00	3.78		ug/L		95	70 - 130
4-Isopropyltoluene	4.00	3.74		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.0		ug/L		95	70 - 130
Acetone	20.0	21.6		ug/L		108	70 - 130
Benzene	4.00	3.76		ug/L		94	70 - 130
Bromobenzene	4.00	3.81		ug/L		95	70 - 130
Bromochloromethane	4.00	3.86		ug/L		97	70 - 130
Bromoform	4.00	3.96		ug/L		99	70 - 130
Bromomethane	4.00	3.42		ug/L		86	70 - 130
Carbon disulfide	4.00	4.04		ug/L		101	70 - 130
Carbon tetrachloride	4.00	3.72		ug/L		93	70 - 130
Chlorobenzene	4.00	3.75		ug/L		94	70 - 130
Chlorodibromomethane	4.00	3.84		ug/L		96	70 - 130
Chloroethane	4.00	3.29		ug/L		82	70 - 130
Chloroform	4.00	3.75		ug/L		94	70 - 130
Chloromethane	4.00	3.84		ug/L		96	70 - 130
cis-1,3-Dichloropropene	4.00	3.95		ug/L		99	70 - 130
Dibromomethane	4.00	3.70		ug/L		92	70 - 130
Dichlorobromomethane	4.00	3.79		ug/L		95	70 - 130
Dichlorodifluoromethane	4.00	3.69		ug/L		92	70 - 130
Ethylbenzene	4.00	3.71		ug/L		93	70 - 130
Hexachlorobutadiene	4.00	3.75		ug/L		94	70 - 130
Isopropylbenzene	4.00	3.81		ug/L		95	70 - 130
Methyl tert-butyl ether	4.00	3.85		ug/L		96	70 - 130
Methylene Chloride	4.00	4.38		ug/L		110	70 - 130
m-Xylene & p-Xylene	4.00	3.75		ug/L		94	70 - 130
Naphthalene	4.00	3.75		ug/L		94	70 - 130
n-Butylbenzene	4.00	3.72		ug/L		93	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-383924/5
Matrix: Water
Analysis Batch: 383924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Propylbenzene	4.00	3.81		ug/L		95	70 - 130
o-Xylene	4.00	3.74		ug/L		94	70 - 130
sec-Butylbenzene	4.00	3.82		ug/L		96	70 - 130
Styrene	4.00	3.68		ug/L		92	70 - 130
tert-Butylbenzene	4.00	3.76		ug/L		94	70 - 130
Tetrachloroethene	4.00	3.79		ug/L		95	70 - 130
Toluene	4.00	3.82		ug/L		95	70 - 130
trans-1,2-Dichloroethene	4.00	3.75		ug/L		94	70 - 130
trans-1,3-Dichloropropene	4.00	3.77		ug/L		94	70 - 130
Trichloroethene	4.00	3.87		ug/L		97	70 - 130
Trichlorofluoromethane	4.00	3.76		ug/L		94	70 - 130
Xylenes, Total	8.00	7.49		ug/L		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 480-383924/6
Matrix: Water
Analysis Batch: 383924

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	4.00	3.73		ug/L		93	70 - 130	4	20
cis-1,2-Dichloroethene	4.00	3.95		ug/L		99	70 - 130	2	20
Vinyl chloride	4.00	3.74		ug/L		93	70 - 130	2	20

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.00	3.97		ug/L		99	70 - 130	2	20
1,1,1-Trichloroethane	4.00	3.88		ug/L		97	70 - 130	4	20
1,1,2,2-Tetrachloroethane	4.00	3.83		ug/L		96	70 - 130	1	20
1,1,2-Trichloroethane	4.00	3.82		ug/L		95	70 - 130	3	20
1,1-Dichloroethene	4.00	3.65		ug/L		91	70 - 130	5	20
1,1-Dichloropropene	4.00	3.96		ug/L		99	70 - 130	3	20
1,2,3-Trichlorobenzene	4.00	3.85		ug/L		96	70 - 130	0	20
1,2,3-Trichloropropane	4.00	4.02		ug/L		100	70 - 130	4	20
1,2,4-Trichlorobenzene	4.00	3.90		ug/L		97	70 - 130	2	20
1,2,4-Trimethylbenzene	4.00	3.82		ug/L		95	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	4.00	3.63		ug/L		91	70 - 130	1	20
1,2-Dibromoethane	4.00	3.80		ug/L		95	70 - 130	1	20
1,2-Dichlorobenzene	4.00	3.84		ug/L		96	70 - 130	2	20
1,2-Dichloroethane	4.00	3.86		ug/L		97	70 - 130	2	20
1,2-Dichloropropane	4.00	3.85		ug/L		96	70 - 130	1	20
1,3,5-Trimethylbenzene	4.00	3.88		ug/L		97	70 - 130	4	20
1,3-Dichlorobenzene	4.00	3.89		ug/L		97	70 - 130	2	20
1,3-Dichloropropane	4.00	3.81		ug/L		95	70 - 130	1	20
1,4-Dichlorobenzene	4.00	3.93		ug/L		98	70 - 130	4	20
2,2-Dichloropropane	4.00	4.07		ug/L		102	70 - 130	3	20
2-Butanone (MEK)	20.0	18.9		ug/L		94	70 - 130	2	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-383924/6
Matrix: Water
Analysis Batch: 383924

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene			4.00	3.95		ug/L		99	70 - 130	2	20
2-Hexanone			20.0	18.5		ug/L		92	70 - 130	2	20
4-Chlorotoluene			4.00	3.82		ug/L		96	70 - 130	1	20
4-Isopropyltoluene			4.00	3.83		ug/L		96	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)			20.0	19.0		ug/L		95	70 - 130	0	20
Acetone			20.0	19.4		ug/L		97	70 - 130	10	20
Benzene			4.00	3.78		ug/L		95	70 - 130	1	20
Bromobenzene			4.00	3.85		ug/L		96	70 - 130	1	20
Bromochloromethane			4.00	3.99		ug/L		100	70 - 130	3	20
Bromoform			4.00	3.90		ug/L		97	70 - 130	2	20
Bromomethane			4.00	3.50		ug/L		87	70 - 130	2	20
Carbon disulfide			4.00	3.75		ug/L		94	70 - 130	7	20
Carbon tetrachloride			4.00	3.77		ug/L		94	70 - 130	1	20
Chlorobenzene			4.00	3.85		ug/L		96	70 - 130	2	20
Chlorodibromomethane			4.00	3.86		ug/L		96	70 - 130	0	20
Chloroethane			4.00	3.59		ug/L		90	70 - 130	9	20
Chloroform			4.00	3.93		ug/L		98	70 - 130	5	20
Chloromethane			4.00	3.52		ug/L		88	70 - 130	9	20
cis-1,3-Dichloropropene			4.00	3.90		ug/L		98	70 - 130	1	20
Dibromomethane			4.00	3.75		ug/L		94	70 - 130	2	20
Dichlorobromomethane			4.00	3.78		ug/L		95	70 - 130	0	20
Dichlorodifluoromethane			4.00	3.51		ug/L		88	70 - 130	5	20
Ethylbenzene			4.00	3.76		ug/L		94	70 - 130	1	20
Hexachlorobutadiene			4.00	3.86		ug/L		96	70 - 130	3	20
Isopropylbenzene			4.00	3.85		ug/L		96	70 - 130	1	20
Methyl tert-butyl ether			4.00	3.77		ug/L		94	70 - 130	2	20
Methylene Chloride			4.00	4.20		ug/L		105	70 - 130	4	20
m-Xylene & p-Xylene			4.00	3.79		ug/L		95	70 - 130	1	20
Naphthalene			4.00	3.73		ug/L		93	70 - 130	1	20
n-Butylbenzene			4.00	3.84		ug/L		96	70 - 130	3	20
n-Propylbenzene			4.00	3.86		ug/L		97	70 - 130	1	20
o-Xylene			4.00	3.75		ug/L		94	70 - 130	0	20
sec-Butylbenzene			4.00	3.90		ug/L		98	70 - 130	2	20
Styrene			4.00	3.70		ug/L		93	70 - 130	1	20
tert-Butylbenzene			4.00	3.93		ug/L		98	70 - 130	4	20
Tetrachloroethene			4.00	3.84		ug/L		96	70 - 130	1	20
Toluene			4.00	3.89		ug/L		97	70 - 130	2	20
trans-1,2-Dichloroethene			4.00	3.47		ug/L		87	70 - 130	8	20
trans-1,3-Dichloropropene			4.00	3.70		ug/L		93	70 - 130	2	20
Trichloroethene			4.00	3.95		ug/L		99	70 - 130	2	20
Trichlorofluoromethane			4.00	4.03		ug/L		101	70 - 130	7	20
Xylenes, Total			8.00	7.54		ug/L		94	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-383924/7
Matrix: Water
Analysis Batch: 383924

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.500	0.633		ug/L		127	50 - 150
cis-1,2-Dichloroethene	0.500	0.569		ug/L		114	50 - 150
Vinyl chloride	0.500	0.533		ug/L		107	50 - 150

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.500	0.508		ug/L		102	50 - 150
1,1,1-Trichloroethane	0.500	0.591		ug/L		118	50 - 150
1,1,2,2-Tetrachloroethane	0.500	0.539		ug/L		108	50 - 150
1,1,2-Trichloroethane	0.500	0.549		ug/L		110	50 - 150
1,1-Dichloroethene	0.500	0.690		ug/L		138	50 - 150
1,1-Dichloropropene	0.500	0.561		ug/L		112	50 - 150
1,2,3-Trichlorobenzene	0.500	0.582		ug/L		116	50 - 150
1,2,3-Trichloropropane	0.500	0.588		ug/L		118	50 - 150
1,2,4-Trichlorobenzene	0.500	0.547		ug/L		109	50 - 150
1,2,4-Trimethylbenzene	0.500	0.531		ug/L		106	50 - 150
1,2-Dibromo-3-Chloropropane	0.500	0.524		ug/L		105	50 - 150
1,2-Dibromoethane	0.500	0.531		ug/L		106	50 - 150
1,2-Dichlorobenzene	0.500	0.534		ug/L		107	50 - 150
1,2-Dichloroethane	0.500	0.548		ug/L		110	50 - 150
1,2-Dichloropropane	0.500	0.563		ug/L		113	50 - 150
1,3,5-Trimethylbenzene	0.500	0.549		ug/L		110	50 - 150
1,3-Dichlorobenzene	0.500	0.528		ug/L		106	50 - 150
1,3-Dichloropropane	0.500	ND		ug/L		98	50 - 150
1,4-Dichlorobenzene	0.500	0.538		ug/L		108	50 - 150
2,2-Dichloropropane	0.500	0.503		ug/L		101	50 - 150
2-Butanone (MEK)	2.50	ND		ug/L		115	50 - 150
2-Chlorotoluene	0.500	0.562		ug/L		112	50 - 150
2-Hexanone	2.50	ND		ug/L		104	50 - 150
4-Chlorotoluene	0.500	0.549		ug/L		110	50 - 150
4-Isopropyltoluene	0.500	0.518		ug/L		104	50 - 150
4-Methyl-2-pentanone (MIBK)	2.50	ND		ug/L		105	50 - 150
Acetone	2.50	ND		ug/L		130	50 - 150
Benzene	0.500	0.549		ug/L		110	50 - 150
Bromobenzene	0.500	0.552		ug/L		110	50 - 150
Bromochloromethane	0.500	0.545		ug/L		109	50 - 150
Bromoform	0.500	ND		ug/L		94	50 - 150
Bromomethane	0.500	0.538		ug/L		108	50 - 150
Carbon disulfide	0.500	0.576		ug/L		115	50 - 150
Carbon tetrachloride	0.500	0.545		ug/L		109	50 - 150
Chlorobenzene	0.500	0.524		ug/L		105	50 - 150
Chlorodibromomethane	0.500	0.506		ug/L		101	50 - 150
Chloroethane	0.500	ND		ug/L		74	50 - 150
Chloroform	0.500	0.571		ug/L		114	50 - 150
Chloromethane	0.500	0.534		ug/L		107	50 - 150
cis-1,3-Dichloropropene	0.500	0.520		ug/L		104	50 - 150
Dibromomethane	0.500	0.508		ug/L		102	50 - 150
Dichlorobromomethane	0.500	0.510		ug/L		102	50 - 150
Dichlorodifluoromethane	0.500	ND		ug/L		89	50 - 150

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-383924/7
Matrix: Water
Analysis Batch: 383924

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.500	0.534		ug/L		107	50 - 150
Hexachlorobutadiene	0.500	0.502		ug/L		100	50 - 150
Isopropylbenzene	0.500	0.508		ug/L		102	50 - 150
Methyl tert-butyl ether	0.500	0.532		ug/L		106	50 - 150
Methylene Chloride	0.500	ND	*	ug/L		239	50 - 150
m-Xylene & p-Xylene	0.500	ND		ug/L		105	50 - 150
Naphthalene	0.500	0.519		ug/L		104	50 - 150
n-Butylbenzene	0.500	0.525		ug/L		105	50 - 150
n-Propylbenzene	0.500	0.553		ug/L		111	50 - 150
o-Xylene	0.500	0.529		ug/L		106	50 - 150
sec-Butylbenzene	0.500	0.525		ug/L		105	50 - 150
Styrene	0.500	0.512		ug/L		102	50 - 150
tert-Butylbenzene	0.500	0.530		ug/L		106	50 - 150
Tetrachloroethene	0.500	0.525		ug/L		105	50 - 150
Toluene	0.500	0.550		ug/L		110	50 - 150
trans-1,2-Dichloroethene	0.500	0.616		ug/L		123	50 - 150
trans-1,3-Dichloropropene	0.500	0.501		ug/L		100	50 - 150
Trichloroethene	0.500	0.544		ug/L		109	50 - 150
Trichlorofluoromethane	0.500	ND		ug/L		83	50 - 150
Xylenes, Total	1.00	ND		ug/L		53	50 - 150

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 480-384183/7
Matrix: Water
Analysis Batch: 384183

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/27/17 13:52	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/27/17 13:52	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/27/17 13:52	1

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-384183/7
Matrix: Water
Analysis Batch: 384183

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
2-Butanone (MEK)	ND		10	10	ug/L			10/27/17 13:52	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
2-Hexanone	ND		10	10	ug/L			10/27/17 13:52	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/27/17 13:52	1
Acetone	ND		10	10	ug/L			10/27/17 13:52	1
Acrylonitrile	ND		10	10	ug/L			10/27/17 13:52	1
Allyl chloride	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Benzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Bromobenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Bromoform	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Bromomethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Chloroethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Chloroform	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Chloromethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Dibromomethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Ethyl ether	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Iodomethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Methylene Chloride	ND		2.5	2.5	ug/L			10/27/17 13:52	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/27/17 13:52	1
Naphthalene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
o-Xylene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Styrene	ND		0.50	0.50	ug/L			10/27/17 13:52	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-384183/7
Matrix: Water
Analysis Batch: 384183

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	ND		10	10	ug/L			10/27/17 13:52	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Toluene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/27/17 13:52	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/27/17 13:52	1
Trichloroethene	ND		0.20	0.20	ug/L			10/27/17 13:52	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/27/17 13:52	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/27/17 13:52	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/27/17 13:52	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/27/17 13:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/27/17 13:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/27/17 13:52*	*1*

Lab Sample ID: LCS 480-384183/4
Matrix: Water
Analysis Batch: 384183

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	4.00	4.14		ug/L		103	70 - 130
cis-1,2-Dichloroethene	4.00	4.15		ug/L		104	70 - 130
Vinyl chloride	4.00	3.76		ug/L		94	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.09		ug/L		102	70 - 130
1,1,1-Trichloroethane	4.00	3.85		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	4.00	4.01		ug/L		100	70 - 130
1,1,2-Trichloroethane	4.00	4.05		ug/L		101	70 - 130
1,1-Dichloroethene	4.00	4.13		ug/L		103	70 - 130
1,1-Dichloropropene	4.00	4.01		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	4.00	4.10		ug/L		103	70 - 130
1,2,3-Trichloropropane	4.00	3.98		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	4.00	4.02		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	4.00	3.87		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.99		ug/L		100	70 - 130
1,2-Dibromoethane	4.00	3.88		ug/L		97	70 - 130
1,2-Dichlorobenzene	4.00	3.95		ug/L		99	70 - 130
1,2-Dichloroethane	4.00	4.08		ug/L		102	70 - 130
1,2-Dichloropropane	4.00	4.16		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	4.00	3.93		ug/L		98	70 - 130
1,3-Dichlorobenzene	4.00	4.01		ug/L		100	70 - 130
1,3-Dichloropropane	4.00	3.96		ug/L		99	70 - 130
1,4-Dichlorobenzene	4.00	4.05		ug/L		101	70 - 130
2,2-Dichloropropane	4.00	4.21		ug/L		105	70 - 130
2-Butanone (MEK)	20.0	21.1		ug/L		105	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-384183/4
Matrix: Water
Analysis Batch: 384183

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	4.00	3.96		ug/L		99	70 - 130
2-Hexanone	20.0	20.2		ug/L		101	70 - 130
4-Chlorotoluene	4.00	3.96		ug/L		99	70 - 130
4-Isopropyltoluene	4.00	3.91		ug/L		98	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.1		ug/L		100	70 - 130
Acetone	20.0	24.3		ug/L		121	70 - 130
Benzene	4.00	3.93		ug/L		98	70 - 130
Bromobenzene	4.00	3.99		ug/L		100	70 - 130
Bromochloromethane	4.00	3.98		ug/L		99	70 - 130
Bromoform	4.00	4.16		ug/L		104	70 - 130
Bromomethane	4.00	3.46		ug/L		87	70 - 130
Carbon disulfide	4.00	3.70		ug/L		92	70 - 130
Carbon tetrachloride	4.00	3.93		ug/L		98	70 - 130
Chlorobenzene	4.00	3.92		ug/L		98	70 - 130
Chlorodibromomethane	4.00	4.09		ug/L		102	70 - 130
Chloroethane	4.00	4.12		ug/L		103	70 - 130
Chloroform	4.00	4.02		ug/L		101	70 - 130
Chloromethane	4.00	4.15		ug/L		104	70 - 130
cis-1,3-Dichloropropene	4.00	4.11		ug/L		103	70 - 130
Dibromomethane	4.00	3.93		ug/L		98	70 - 130
Dichlorobromomethane	4.00	3.95		ug/L		99	70 - 130
Dichlorodifluoromethane	4.00	3.64		ug/L		91	70 - 130
Ethylbenzene	4.00	3.82		ug/L		95	70 - 130
Hexachlorobutadiene	4.00	3.85		ug/L		96	70 - 130
Isopropylbenzene	4.00	3.93		ug/L		98	70 - 130
Methyl tert-butyl ether	4.00	3.98		ug/L		99	70 - 130
Methylene Chloride	4.00	4.29		ug/L		107	70 - 130
m-Xylene & p-Xylene	4.00	3.90		ug/L		97	70 - 130
Naphthalene	4.00	3.84		ug/L		96	70 - 130
n-Butylbenzene	4.00	3.92		ug/L		98	70 - 130
n-Propylbenzene	4.00	3.93		ug/L		98	70 - 130
o-Xylene	4.00	3.91		ug/L		98	70 - 130
sec-Butylbenzene	4.00	3.94		ug/L		99	70 - 130
Styrene	4.00	3.81		ug/L		95	70 - 130
tert-Butylbenzene	4.00	3.99		ug/L		100	70 - 130
Tetrachloroethene	4.00	3.99		ug/L		100	70 - 130
Toluene	4.00	3.96		ug/L		99	70 - 130
trans-1,2-Dichloroethene	4.00	3.91		ug/L		98	70 - 130
trans-1,3-Dichloropropene	4.00	3.86		ug/L		96	70 - 130
Trichloroethene	4.00	3.94		ug/L		99	70 - 130
Trichlorofluoromethane	4.00	3.78		ug/L		95	70 - 130
Xylenes, Total	8.00	7.81		ug/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-384183/5
Matrix: Water
Analysis Batch: 384183

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	4.00	4.13		ug/L		103	70 - 130	0	20
cis-1,2-Dichloroethene	4.00	4.20		ug/L		105	70 - 130	1	20
Vinyl chloride	4.00	3.83		ug/L		96	70 - 130	2	20

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.00	4.06		ug/L		102	70 - 130	1	20
1,1,1-Trichloroethane	4.00	4.13		ug/L		103	70 - 130	7	20
1,1,2,2-Tetrachloroethane	4.00	4.03		ug/L		101	70 - 130	0	20
1,1,2-Trichloroethane	4.00	4.00		ug/L		100	70 - 130	1	20
1,1-Dichloroethene	4.00	4.13		ug/L		103	70 - 130	0	20
1,1-Dichloropropene	4.00	4.00		ug/L		100	70 - 130	0	20
1,2,3-Trichlorobenzene	4.00	4.03		ug/L		101	70 - 130	2	20
1,2,3-Trichloropropane	4.00	4.13		ug/L		103	70 - 130	4	20
1,2,4-Trichlorobenzene	4.00	4.01		ug/L		100	70 - 130	0	20
1,2,4-Trimethylbenzene	4.00	3.89		ug/L		97	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	4.00	3.88		ug/L		97	70 - 130	3	20
1,2-Dibromoethane	4.00	3.96		ug/L		99	70 - 130	2	20
1,2-Dichlorobenzene	4.00	4.01		ug/L		100	70 - 130	1	20
1,2-Dichloroethane	4.00	4.09		ug/L		102	70 - 130	0	20
1,2-Dichloropropane	4.00	4.07		ug/L		102	70 - 130	2	20
1,3,5-Trimethylbenzene	4.00	3.97		ug/L		99	70 - 130	1	20
1,3-Dichlorobenzene	4.00	4.02		ug/L		100	70 - 130	0	20
1,3-Dichloropropane	4.00	3.94		ug/L		98	70 - 130	1	20
1,4-Dichlorobenzene	4.00	4.04		ug/L		101	70 - 130	0	20
2,2-Dichloropropane	4.00	4.21		ug/L		105	70 - 130	0	20
2-Butanone (MEK)	20.0	20.9		ug/L		104	70 - 130	1	20
2-Chlorotoluene	4.00	3.97		ug/L		99	70 - 130	0	20
2-Hexanone	20.0	20.1		ug/L		100	70 - 130	0	20
4-Chlorotoluene	4.00	3.93		ug/L		98	70 - 130	1	20
4-Isopropyltoluene	4.00	3.96		ug/L		99	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	20.0	20.2		ug/L		101	70 - 130	1	20
Acetone	20.0	24.1		ug/L		120	70 - 130	1	20
Benzene	4.00	4.00		ug/L		100	70 - 130	2	20
Bromobenzene	4.00	3.93		ug/L		98	70 - 130	1	20
Bromochloromethane	4.00	4.05		ug/L		101	70 - 130	2	20
Bromoform	4.00	4.05		ug/L		101	70 - 130	3	20
Bromomethane	4.00	3.39		ug/L		85	70 - 130	2	20
Carbon disulfide	4.00	3.74		ug/L		93	70 - 130	1	20
Carbon tetrachloride	4.00	3.86		ug/L		97	70 - 130	2	20
Chlorobenzene	4.00	3.98		ug/L		100	70 - 130	2	20
Chlorodibromomethane	4.00	4.08		ug/L		102	70 - 130	0	20
Chloroethane	4.00	4.27		ug/L		107	70 - 130	3	20
Chloroform	4.00	4.09		ug/L		102	70 - 130	2	20
Chloromethane	4.00	4.02		ug/L		101	70 - 130	3	20
cis-1,3-Dichloropropene	4.00	4.11		ug/L		103	70 - 130	0	20
Dibromomethane	4.00	3.79		ug/L		95	70 - 130	4	20
Dichlorobromomethane	4.00	3.94		ug/L		99	70 - 130	0	20
Dichlorodifluoromethane	4.00	3.68		ug/L		92	70 - 130	1	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-384183/5
Matrix: Water
Analysis Batch: 384183

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	4.00	3.90		ug/L		98	70 - 130	2	20
Hexachlorobutadiene	4.00	3.83		ug/L		96	70 - 130	0	20
Isopropylbenzene	4.00	3.95		ug/L		99	70 - 130	0	20
Methyl tert-butyl ether	4.00	4.01		ug/L		100	70 - 130	1	20
Methylene Chloride	4.00	4.18		ug/L		104	70 - 130	3	20
m-Xylene & p-Xylene	4.00	3.94		ug/L		99	70 - 130	1	20
Naphthalene	4.00	3.85		ug/L		96	70 - 130	0	20
n-Butylbenzene	4.00	3.93		ug/L		98	70 - 130	0	20
n-Propylbenzene	4.00	3.97		ug/L		99	70 - 130	1	20
o-Xylene	4.00	4.00		ug/L		100	70 - 130	2	20
sec-Butylbenzene	4.00	3.98		ug/L		99	70 - 130	1	20
Styrene	4.00	3.90		ug/L		98	70 - 130	2	20
tert-Butylbenzene	4.00	4.04		ug/L		101	70 - 130	1	20
Tetrachloroethene	4.00	3.99		ug/L		100	70 - 130	0	20
Toluene	4.00	3.97		ug/L		99	70 - 130	0	20
trans-1,2-Dichloroethene	4.00	3.82		ug/L		96	70 - 130	2	20
trans-1,3-Dichloropropene	4.00	3.87		ug/L		97	70 - 130	0	20
Trichloroethene	4.00	3.99		ug/L		100	70 - 130	1	20
Trichlorofluoromethane	4.00	3.62		ug/L		91	70 - 130	4	20
Xylenes, Total	8.00	7.94		ug/L		99	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: LLCS 480-384183/6
Matrix: Water
Analysis Batch: 384183

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.500	0.636		ug/L		127	50 - 150
cis-1,2-Dichloroethene	0.500	0.550		ug/L		110	50 - 150
Vinyl chloride	0.500	0.457		ug/L		91	50 - 150

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.500	ND		ug/L		99	50 - 150
1,1,1-Trichloroethane	0.500	0.546		ug/L		109	50 - 150
1,1,2,2-Tetrachloroethane	0.500	0.501		ug/L		100	50 - 150
1,1,2-Trichloroethane	0.500	0.513		ug/L		103	50 - 150
1,1-Dichloroethene	0.500	0.530		ug/L		106	50 - 150
1,1-Dichloropropene	0.500	0.535		ug/L		107	50 - 150
1,2,3-Trichlorobenzene	0.500	0.506		ug/L		101	50 - 150
1,2,3-Trichloropropane	0.500	0.545		ug/L		109	50 - 150
1,2,4-Trichlorobenzene	0.500	ND		ug/L		98	50 - 150
1,2,4-Trimethylbenzene	0.500	ND		ug/L		99	50 - 150
1,2-Dibromo-3-Chloropropane	0.500	ND		ug/L		90	50 - 150
1,2-Dibromoethane	0.500	0.501		ug/L		100	50 - 150
1,2-Dichlorobenzene	0.500	0.552		ug/L		110	50 - 150

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-384183/6
Matrix: Water
Analysis Batch: 384183

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	0.500	0.527		ug/L		105	50 - 150
1,2-Dichloropropane	0.500	0.519		ug/L		104	50 - 150
1,3,5-Trimethylbenzene	0.500	ND		ug/L		98	50 - 150
1,3-Dichlorobenzene	0.500	0.529		ug/L		106	50 - 150
1,3-Dichloropropane	0.500	0.503		ug/L		101	50 - 150
1,4-Dichlorobenzene	0.500	0.529		ug/L		106	50 - 150
2,2-Dichloropropane	0.500	0.590		ug/L		118	50 - 150
2-Butanone (MEK)	2.50	ND		ug/L		108	50 - 150
2-Chlorotoluene	0.500	ND		ug/L		100	50 - 150
2-Hexanone	2.50	ND		ug/L		101	50 - 150
4-Chlorotoluene	0.500	0.506		ug/L		101	50 - 150
4-Isopropyltoluene	0.500	ND		ug/L		97	50 - 150
4-Methyl-2-pentanone (MIBK)	2.50	ND		ug/L		101	50 - 150
Acetone	2.50	ND		ug/L		125	50 - 150
Benzene	0.500	0.546		ug/L		109	50 - 150
Bromobenzene	0.500	0.514		ug/L		103	50 - 150
Bromochloromethane	0.500	0.526		ug/L		105	50 - 150
Bromoform	0.500	ND		ug/L		91	50 - 150
Bromomethane	0.500	ND		ug/L		89	50 - 150
Carbon disulfide	0.500	0.512		ug/L		102	50 - 150
Carbon tetrachloride	0.500	ND		ug/L		97	50 - 150
Chlorobenzene	0.500	0.519		ug/L		104	50 - 150
Chlorodibromomethane	0.500	0.502		ug/L		100	50 - 150
Chloroethane	0.500	ND		ug/L		94	50 - 150
Chloroform	0.500	0.591		ug/L		118	50 - 150
Chloromethane	0.500	0.516		ug/L		103	50 - 150
cis-1,3-Dichloropropene	0.500	0.550		ug/L		110	50 - 150
Dibromomethane	0.500	0.518		ug/L		104	50 - 150
Dichlorobromomethane	0.500	0.516		ug/L		103	50 - 150
Dichlorodifluoromethane	0.500	ND		ug/L		78	50 - 150
Ethylbenzene	0.500	0.521		ug/L		104	50 - 150
Hexachlorobutadiene	0.500	ND		ug/L		96	50 - 150
Isopropylbenzene	0.500	0.512		ug/L		102	50 - 150
Methyl tert-butyl ether	0.500	0.515		ug/L		103	50 - 150
Methylene Chloride	0.500	ND	*	ug/L		167	50 - 150
m-Xylene & p-Xylene	0.500	ND		ug/L		105	50 - 150
Naphthalene	0.500	ND		ug/L		96	50 - 150
n-Butylbenzene	0.500	0.503		ug/L		101	50 - 150
n-Propylbenzene	0.500	0.521		ug/L		104	50 - 150
o-Xylene	0.500	0.521		ug/L		104	50 - 150
sec-Butylbenzene	0.500	0.516		ug/L		103	50 - 150
Styrene	0.500	ND		ug/L		99	50 - 150
tert-Butylbenzene	0.500	0.507		ug/L		101	50 - 150
Tetrachloroethene	0.500	0.514		ug/L		103	50 - 150
Toluene	0.500	0.543		ug/L		109	50 - 150
trans-1,2-Dichloroethene	0.500	0.557		ug/L		111	50 - 150
trans-1,3-Dichloropropene	0.500	ND		ug/L		99	50 - 150
Trichloroethene	0.500	0.518		ug/L		104	50 - 150

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-384183/6
Matrix: Water
Analysis Batch: 384183

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	0.500	ND		ug/L		82	50 - 150
Xylenes, Total	1.00	ND		ug/L		52	50 - 150

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: 480-126333-11 MS
Matrix: Water
Analysis Batch: 384183

Client Sample ID: W-171017-MB-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		4.00	3.92		ug/L		98	70 - 130
cis-1,2-Dichloroethene	ND		4.00	4.97		ug/L		124	70 - 130
Vinyl chloride	ND		4.00	4.69		ug/L		117	70 - 130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		4.00	4.74		ug/L		119	70 - 130
1,1,1-Trichloroethane	ND		4.00	4.84		ug/L		121	70 - 130
1,1,2,2-Tetrachloroethane	ND		4.00	4.45		ug/L		111	70 - 130
1,1,2-Trichloroethane	ND		4.00	4.58		ug/L		115	70 - 130
1,1-Dichloroethene	ND		4.00	4.17		ug/L		104	70 - 130
1,1-Dichloropropene	ND		4.00	4.68		ug/L		117	70 - 130
1,2,3-Trichlorobenzene	ND		4.00	4.57		ug/L		114	70 - 130
1,2,3-Trichloropropane	ND		4.00	4.63		ug/L		116	70 - 130
1,2,4-Trichlorobenzene	ND		4.00	4.57		ug/L		114	70 - 130
1,2,4-Trimethylbenzene	ND		4.00	4.07		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	ND		4.00	4.25		ug/L		106	70 - 130
1,2-Dibromoethane	ND		4.00	4.51		ug/L		113	70 - 130
1,2-Dichlorobenzene	ND		4.00	4.60		ug/L		115	70 - 130
1,2-Dichloroethane	ND		4.00	4.56		ug/L		114	70 - 130
1,2-Dichloropropane	ND		4.00	4.77		ug/L		119	70 - 130
1,3,5-Trimethylbenzene	ND		4.00	3.92		ug/L		98	70 - 130
1,3-Dichlorobenzene	ND		4.00	4.62		ug/L		116	70 - 130
1,3-Dichloropropane	ND		4.00	4.52		ug/L		113	70 - 130
1,4-Dichlorobenzene	ND		4.00	4.68		ug/L		117	70 - 130
2,2-Dichloropropane	ND		4.00	4.48		ug/L		112	70 - 130
2-Butanone (MEK)	ND		20.0	21.5		ug/L		107	70 - 130
2-Chlorotoluene	ND		4.00	4.51		ug/L		113	70 - 130
2-Hexanone	ND		20.0	22.4		ug/L		112	70 - 130
4-Chlorotoluene	ND		4.00	4.52		ug/L		113	70 - 130
4-Isopropyltoluene	ND		4.00	4.44		ug/L		111	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		20.0	22.4		ug/L		112	70 - 130
Acetone	ND		20.0	22.5		ug/L		113	70 - 130
Benzene	ND		4.00	4.60		ug/L		115	70 - 130
Bromobenzene	ND		4.00	4.57		ug/L		114	70 - 130
Bromochloromethane	ND		4.00	4.72		ug/L		118	70 - 130
Bromoform	ND		4.00	3.82		ug/L		96	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-126333-11 MS
Matrix: Water
Analysis Batch: 384183

Client Sample ID: W-171017-MB-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	ND		4.00	2.80		ug/L		70	70 - 130
Carbon disulfide	ND	F1	4.00	5.40	F1	ug/L		135	70 - 130
Carbon tetrachloride	ND	F2	4.00	4.31		ug/L		108	70 - 130
Chlorobenzene	ND		4.00	4.69		ug/L		117	70 - 130
Chlorodibromomethane	ND		4.00	4.28		ug/L		107	70 - 130
Chloroethane	ND	F1 F2	4.00	3.34		ug/L		84	70 - 130
Chloroform	ND		4.00	4.64		ug/L		116	70 - 130
Chloromethane	ND		4.00	4.29		ug/L		107	70 - 130
cis-1,3-Dichloropropene	ND		4.00	4.53		ug/L		113	70 - 130
Dibromomethane	ND		4.00	4.51		ug/L		113	70 - 130
Dichlorobromomethane	ND		4.00	4.44		ug/L		111	70 - 130
Dichlorodifluoromethane	ND		4.00	4.23		ug/L		106	70 - 130
Ethylbenzene	ND		4.00	4.56		ug/L		114	70 - 130
Hexachlorobutadiene	ND		4.00	4.44		ug/L		111	70 - 130
Isopropylbenzene	ND		4.00	4.64		ug/L		116	70 - 130
Methyl tert-butyl ether	ND		4.00	4.40		ug/L		110	70 - 130
Methylene Chloride	ND	*	4.00	4.66		ug/L		116	70 - 130
m-Xylene & p-Xylene	ND		4.00	4.40		ug/L		110	70 - 130
Naphthalene	ND		4.00	4.19		ug/L		105	70 - 130
n-Butylbenzene	ND		4.00	4.48		ug/L		112	70 - 130
n-Propylbenzene	ND		4.00	4.57		ug/L		114	70 - 130
o-Xylene	ND		4.00	4.40		ug/L		110	70 - 130
sec-Butylbenzene	ND		4.00	4.66		ug/L		116	70 - 130
Styrene	ND		4.00	3.59		ug/L		90	70 - 130
tert-Butylbenzene	ND		4.00	4.65		ug/L		116	70 - 130
Tetrachloroethene	ND		4.00	4.73		ug/L		118	70 - 130
Toluene	ND		4.00	4.61		ug/L		115	70 - 130
trans-1,2-Dichloroethene	ND		4.00	4.37		ug/L		109	70 - 130
trans-1,3-Dichloropropene	ND		4.00	4.16		ug/L		104	70 - 130
Trichloroethene	ND		4.00	4.65		ug/L		116	70 - 130
Trichlorofluoromethane	ND		4.00	4.20		ug/L		105	70 - 130
Xylenes, Total	ND		8.00	8.80		ug/L		110	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: 480-126333-11 MSD
Matrix: Water
Analysis Batch: 384183

Client Sample ID: W-171017-MB-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND		4.00	3.49		ug/L		87	70 - 130	12	20
cis-1,2-Dichloroethene	ND		4.00	5.08		ug/L		127	70 - 130	2	20
Vinyl chloride	ND		4.00	4.57		ug/L		114	70 - 130	3	20

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		4.00	4.52		ug/L		113	70 - 130	5	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-126333-11 MSD
Matrix: Water
Analysis Batch: 384183

Client Sample ID: W-171017-MB-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		4.00	4.46		ug/L		112	70 - 130	8	20
1,1,2,2-Tetrachloroethane	ND		4.00	4.44		ug/L		111	70 - 130	0	20
1,1,2-Trichloroethane	ND		4.00	4.61		ug/L		115	70 - 130	1	20
1,1-Dichloroethene	ND		4.00	4.28		ug/L		107	70 - 130	3	20
1,1-Dichloropropene	ND		4.00	4.44		ug/L		111	70 - 130	5	20
1,2,3-Trichlorobenzene	ND		4.00	4.43		ug/L		111	70 - 130	3	20
1,2,3-Trichloropropane	ND		4.00	4.44		ug/L		111	70 - 130	4	20
1,2,4-Trichlorobenzene	ND		4.00	4.28		ug/L		107	70 - 130	7	20
1,2,4-Trimethylbenzene	ND		4.00	3.74		ug/L		93	70 - 130	8	20
1,2-Dibromo-3-Chloropropane	ND		4.00	4.25		ug/L		106	70 - 130	0	20
1,2-Dibromoethane	ND		4.00	4.43		ug/L		111	70 - 130	2	20
1,2-Dichlorobenzene	ND		4.00	4.31		ug/L		108	70 - 130	6	20
1,2-Dichloroethane	ND		4.00	4.59		ug/L		115	70 - 130	1	20
1,2-Dichloropropane	ND		4.00	4.72		ug/L		118	70 - 130	1	20
1,3,5-Trimethylbenzene	ND		4.00	3.56		ug/L		89	70 - 130	10	20
1,3-Dichlorobenzene	ND		4.00	4.13		ug/L		103	70 - 130	11	20
1,3-Dichloropropane	ND		4.00	4.41		ug/L		110	70 - 130	2	20
1,4-Dichlorobenzene	ND		4.00	4.36		ug/L		109	70 - 130	7	20
2,2-Dichloropropane	ND		4.00	3.89		ug/L		97	70 - 130	14	20
2-Butanone (MEK)	ND		20.0	24.0		ug/L		120	70 - 130	11	20
2-Chlorotoluene	ND		4.00	4.18		ug/L		104	70 - 130	8	20
2-Hexanone	ND		20.0	22.8		ug/L		114	70 - 130	2	20
4-Chlorotoluene	ND		4.00	4.24		ug/L		106	70 - 130	6	20
4-Isopropyltoluene	ND		4.00	3.97		ug/L		99	70 - 130	11	20
4-Methyl-2-pentanone (MIBK)	ND		20.0	23.1		ug/L		116	70 - 130	3	20
Acetone	ND		20.0	25.3		ug/L		126	70 - 130	11	20
Benzene	ND		4.00	4.59		ug/L		115	70 - 130	0	20
Bromobenzene	ND		4.00	4.24		ug/L		106	70 - 130	8	20
Bromochloromethane	ND		4.00	4.61		ug/L		115	70 - 130	2	20
Bromoform	ND		4.00	3.75		ug/L		94	70 - 130	2	20
Bromomethane	ND		4.00	2.92		ug/L		73	70 - 130	4	20
Carbon disulfide	ND	F1	4.00	5.12		ug/L		128	70 - 130	5	20
Carbon tetrachloride	ND	F2	4.00	3.18	F2	ug/L		79	70 - 130	30	20
Chlorobenzene	ND		4.00	4.38		ug/L		110	70 - 130	7	20
Chlorodibromomethane	ND		4.00	4.12		ug/L		103	70 - 130	4	20
Chloroethane	ND	F1 F2	4.00	2.50	F1 F2	ug/L		62	70 - 130	29	20
Chloroform	ND		4.00	4.66		ug/L		116	70 - 130	0	20
Chloromethane	ND		4.00	3.99		ug/L		100	70 - 130	7	20
cis-1,3-Dichloropropene	ND		4.00	4.39		ug/L		110	70 - 130	3	20
Dibromomethane	ND		4.00	4.47		ug/L		112	70 - 130	1	20
Dichlorobromomethane	ND		4.00	4.35		ug/L		109	70 - 130	2	20
Dichlorodifluoromethane	ND		4.00	3.99		ug/L		100	70 - 130	6	20
Ethylbenzene	ND		4.00	4.18		ug/L		105	70 - 130	9	20
Hexachlorobutadiene	ND		4.00	4.24		ug/L		106	70 - 130	4	20
Isopropylbenzene	ND		4.00	4.16		ug/L		104	70 - 130	11	20
Methyl tert-butyl ether	ND		4.00	4.48		ug/L		112	70 - 130	2	20
Methylene Chloride	ND	*	4.00	4.69		ug/L		117	70 - 130	1	20
m-Xylene & p-Xylene	ND		4.00	4.05		ug/L		101	70 - 130	8	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-126333-11 MSD — **Client Sample ID: W-171017-MB-11**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384183

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		4.00	4.21		ug/L		105	70 - 130	0	20
n-Butylbenzene	ND		4.00	4.00		ug/L		100	70 - 130	11	20
n-Propylbenzene	ND		4.00	4.07		ug/L		102	70 - 130	12	20
o-Xylene	ND		4.00	4.08		ug/L		102	70 - 130	8	20
sec-Butylbenzene	ND		4.00	4.06		ug/L		101	70 - 130	14	20
Styrene	ND		4.00	3.31		ug/L		83	70 - 130	8	20
tert-Butylbenzene	ND		4.00	4.07		ug/L		102	70 - 130	13	20
Tetrachloroethene	ND		4.00	4.25		ug/L		106	70 - 130	11	20
Toluene	ND		4.00	4.38		ug/L		110	70 - 130	5	20
trans-1,2-Dichloroethene	ND		4.00	4.58		ug/L		114	70 - 130	5	20
trans-1,3-Dichloropropene	ND		4.00	4.09		ug/L		102	70 - 130	2	20
Trichloroethene	ND		4.00	4.43		ug/L		111	70 - 130	5	20
Trichlorofluoromethane	ND		4.00	4.24		ug/L		106	70 - 130	1	20
Xylenes, Total	ND		8.00	8.13		ug/L		102	70 - 130	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 480-384427/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/28/17 20:58	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/28/17 20:58	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/28/17 20:58	1

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/28/17 20:58	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-384427/7
Matrix: Water
Analysis Batch: 384427

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
2-Butanone (MEK)	ND		10	10	ug/L			10/28/17 20:58	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
2-Hexanone	ND		10	10	ug/L			10/28/17 20:58	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/28/17 20:58	1
Acetone	ND		10	10	ug/L			10/28/17 20:58	1
Acrylonitrile	ND		10	10	ug/L			10/28/17 20:58	1
Allyl chloride	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Benzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Bromobenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Bromoform	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Bromomethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Chloroethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Chloroform	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Chloromethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Dibromomethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Ethyl ether	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Iodomethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Methylene Chloride	ND		2.5	2.5	ug/L			10/28/17 20:58	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/28/17 20:58	1
Naphthalene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
o-Xylene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Styrene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
t-Butanol	ND		10	10	ug/L			10/28/17 20:58	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Toluene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/28/17 20:58	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/28/17 20:58	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-384427/7
Matrix: Water
Analysis Batch: 384427

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/28/17 20:58	1
Trichloroethene	ND		0.20	0.20	ug/L			10/28/17 20:58	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/28/17 20:58	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/28/17 20:58	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/28/17 20:58	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/28/17 20:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*10/28/17 20:58*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/28/17 20:58*	*1*

Lab Sample ID: LCS 480-384427/4
Matrix: Water
Analysis Batch: 384427

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	4.00	4.30		ug/L		108	70 - 130
cis-1,2-Dichloroethene	4.00	4.52		ug/L		113	70 - 130
Vinyl chloride	4.00	4.11		ug/L		103	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.28		ug/L		107	70 - 130
1,1,1-Trichloroethane	4.00	4.29		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	4.00	4.14		ug/L		104	70 - 130
1,1,2-Trichloroethane	4.00	4.23		ug/L		106	70 - 130
1,1-Dichloroethene	4.00	4.31		ug/L		108	70 - 130
1,1-Dichloropropene	4.00	4.26		ug/L		106	70 - 130
1,2,3-Trichlorobenzene	4.00	4.20		ug/L		105	70 - 130
1,2,3-Trichloropropane	4.00	4.26		ug/L		107	70 - 130
1,2,4-Trichlorobenzene	4.00	4.18		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	4.00	4.07		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.18		ug/L		105	70 - 130
1,2-Dibromoethane	4.00	4.22		ug/L		106	70 - 130
1,2-Dichlorobenzene	4.00	4.15		ug/L		104	70 - 130
1,2-Dichloroethane	4.00	4.18		ug/L		104	70 - 130
1,2-Dichloropropane	4.00	4.29		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	4.00	4.11		ug/L		103	70 - 130
1,3-Dichlorobenzene	4.00	4.16		ug/L		104	70 - 130
1,3-Dichloropropane	4.00	4.28		ug/L		107	70 - 130
1,4-Dichlorobenzene	4.00	4.23		ug/L		106	70 - 130
2,2-Dichloropropane	4.00	4.54		ug/L		114	70 - 130
2-Butanone (MEK)	20.0	23.1		ug/L		116	70 - 130
2-Chlorotoluene	4.00	4.32		ug/L		108	70 - 130
2-Hexanone	20.0	22.1		ug/L		110	70 - 130
4-Chlorotoluene	4.00	4.05		ug/L		101	70 - 130
4-Isopropyltoluene	4.00	4.08		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	21.3		ug/L		107	70 - 130
Acetone	20.0	26.1	*	ug/L		131	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-384427/4
Matrix: Water
Analysis Batch: 384427

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	4.00	4.20		ug/L		105	70 - 130
Bromobenzene	4.00	4.14		ug/L		103	70 - 130
Bromochloromethane	4.00	4.25		ug/L		106	70 - 130
Bromoform	4.00	4.45		ug/L		111	70 - 130
Bromomethane	4.00	3.87		ug/L		97	70 - 130
Carbon disulfide	4.00	3.87		ug/L		97	70 - 130
Carbon tetrachloride	4.00	3.95		ug/L		99	70 - 130
Chlorobenzene	4.00	4.23		ug/L		106	70 - 130
Chlorodibromomethane	4.00	4.34		ug/L		108	70 - 130
Chloroethane	4.00	4.20		ug/L		105	70 - 130
Chloroform	4.00	4.27		ug/L		107	70 - 130
Chloromethane	4.00	4.57		ug/L		114	70 - 130
cis-1,3-Dichloropropene	4.00	4.38		ug/L		109	70 - 130
Dibromomethane	4.00	4.11		ug/L		103	70 - 130
Dichlorobromomethane	4.00	4.21		ug/L		105	70 - 130
Dichlorodifluoromethane	4.00	3.97		ug/L		99	70 - 130
Ethylbenzene	4.00	4.11		ug/L		103	70 - 130
Hexachlorobutadiene	4.00	4.09		ug/L		102	70 - 130
Isopropylbenzene	4.00	4.20		ug/L		105	70 - 130
Methyl tert-butyl ether	4.00	4.16		ug/L		104	70 - 130
Methylene Chloride	4.00	4.48		ug/L		112	70 - 130
m-Xylene & p-Xylene	4.00	4.17		ug/L		104	70 - 130
Naphthalene	4.00	4.01		ug/L		100	70 - 130
n-Butylbenzene	4.00	4.03		ug/L		101	70 - 130
n-Propylbenzene	4.00	4.07		ug/L		102	70 - 130
o-Xylene	4.00	4.16		ug/L		104	70 - 130
sec-Butylbenzene	4.00	4.04		ug/L		101	70 - 130
Styrene	4.00	4.08		ug/L		102	70 - 130
tert-Butylbenzene	4.00	4.10		ug/L		102	70 - 130
Tetrachloroethene	4.00	4.19		ug/L		105	70 - 130
Toluene	4.00	4.25		ug/L		106	70 - 130
trans-1,2-Dichloroethene	4.00	3.95		ug/L		99	70 - 130
trans-1,3-Dichloropropene	4.00	4.09		ug/L		102	70 - 130
Trichloroethene	4.00	4.31		ug/L		108	70 - 130
Trichlorofluoromethane	4.00	4.20		ug/L		105	70 - 130
Xylenes, Total	8.00	8.33		ug/L		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 480-384427/5
Matrix: Water
Analysis Batch: 384427

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	4.00	4.21		ug/L		105	70 - 130	2	20
cis-1,2-Dichloroethene	4.00	4.18		ug/L		105	70 - 130	8	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-384427/5
Matrix: Water
Analysis Batch: 384427

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	4.00	3.86		ug/L		97	70 - 130	6	20

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.00	4.05		ug/L		101	70 - 130	5	20
1,1,1-Trichloroethane	4.00	4.03		ug/L		101	70 - 130	6	20
1,1,2,2-Tetrachloroethane	4.00	4.00		ug/L		100	70 - 130	3	20
1,1,2-Trichloroethane	4.00	4.20		ug/L		105	70 - 130	1	20
1,1-Dichloroethene	4.00	3.62		ug/L		90	70 - 130	17	20
1,1-Dichloropropene	4.00	3.99		ug/L		100	70 - 130	7	20
1,2,3-Trichlorobenzene	4.00	4.08		ug/L		102	70 - 130	3	20
1,2,3-Trichloropropane	4.00	4.19		ug/L		105	70 - 130	2	20
1,2,4-Trichlorobenzene	4.00	4.02		ug/L		101	70 - 130	4	20
1,2,4-Trimethylbenzene	4.00	3.92		ug/L		98	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	4.00	4.00		ug/L		100	70 - 130	5	20
1,2-Dibromoethane	4.00	4.12		ug/L		103	70 - 130	2	20
1,2-Dichlorobenzene	4.00	4.04		ug/L		101	70 - 130	2	20
1,2-Dichloroethane	4.00	4.07		ug/L		102	70 - 130	3	20
1,2-Dichloropropane	4.00	4.16		ug/L		104	70 - 130	3	20
1,3,5-Trimethylbenzene	4.00	3.93		ug/L		98	70 - 130	5	20
1,3-Dichlorobenzene	4.00	4.02		ug/L		101	70 - 130	3	20
1,3-Dichloropropane	4.00	4.16		ug/L		104	70 - 130	3	20
1,4-Dichlorobenzene	4.00	4.09		ug/L		102	70 - 130	4	20
2,2-Dichloropropane	4.00	4.25		ug/L		106	70 - 130	7	20
2-Butanone (MEK)	20.0	21.9		ug/L		110	70 - 130	5	20
2-Chlorotoluene	4.00	4.08		ug/L		102	70 - 130	6	20
2-Hexanone	20.0	20.9		ug/L		105	70 - 130	5	20
4-Chlorotoluene	4.00	3.94		ug/L		99	70 - 130	3	20
4-Isopropyltoluene	4.00	3.90		ug/L		97	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	20.0	21.1		ug/L		105	70 - 130	1	20
Acetone	20.0	24.9		ug/L		125	70 - 130	5	20
Benzene	4.00	4.03		ug/L		101	70 - 130	4	20
Bromobenzene	4.00	3.96		ug/L		99	70 - 130	4	20
Bromochloromethane	4.00	4.26		ug/L		106	70 - 130	0	20
Bromoform	4.00	4.22		ug/L		106	70 - 130	5	20
Bromomethane	4.00	3.38		ug/L		85	70 - 130	13	20
Carbon disulfide	4.00	3.61		ug/L		90	70 - 130	7	20
Carbon tetrachloride	4.00	3.71		ug/L		93	70 - 130	6	20
Chlorobenzene	4.00	4.01		ug/L		100	70 - 130	5	20
Chlorodibromomethane	4.00	4.27		ug/L		107	70 - 130	2	20
Chloroethane	4.00	3.95		ug/L		99	70 - 130	6	20
Chloroform	4.00	4.14		ug/L		103	70 - 130	3	20
Chloromethane	4.00	4.07		ug/L		102	70 - 130	12	20
cis-1,3-Dichloropropene	4.00	4.32		ug/L		108	70 - 130	1	20
Dibromomethane	4.00	3.99		ug/L		100	70 - 130	3	20
Dichlorobromomethane	4.00	4.15		ug/L		104	70 - 130	1	20
Dichlorodifluoromethane	4.00	3.69		ug/L		92	70 - 130	7	20
Ethylbenzene	4.00	3.91		ug/L		98	70 - 130	5	20
Hexachlorobutadiene	4.00	3.85		ug/L		96	70 - 130	6	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-384427/5
Matrix: Water
Analysis Batch: 384427

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	4.00	3.96		ug/L		99	70 - 130	6	20
Methyl tert-butyl ether	4.00	4.10		ug/L		103	70 - 130	1	20
Methylene Chloride	4.00	4.48		ug/L		112	70 - 130	0	20
m-Xylene & p-Xylene	4.00	3.99		ug/L		100	70 - 130	4	20
Naphthalene	4.00	3.90		ug/L		97	70 - 130	3	20
n-Butylbenzene	4.00	3.84		ug/L		96	70 - 130	5	20
n-Propylbenzene	4.00	3.91		ug/L		98	70 - 130	4	20
o-Xylene	4.00	3.94		ug/L		98	70 - 130	6	20
sec-Butylbenzene	4.00	3.91		ug/L		98	70 - 130	3	20
Styrene	4.00	3.91		ug/L		98	70 - 130	4	20
tert-Butylbenzene	4.00	3.86		ug/L		97	70 - 130	6	20
Tetrachloroethene	4.00	4.06		ug/L		102	70 - 130	3	20
Toluene	4.00	4.03		ug/L		101	70 - 130	5	20
trans-1,2-Dichloroethene	4.00	3.99		ug/L		100	70 - 130	1	20
trans-1,3-Dichloropropene	4.00	4.06		ug/L		102	70 - 130	1	20
Trichloroethene	4.00	4.09		ug/L		102	70 - 130	5	20
Trichlorofluoromethane	4.00	4.17		ug/L		104	70 - 130	1	20
Xylenes, Total	8.00	7.93		ug/L		99	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: LLCS 480-384427/6
Matrix: Water
Analysis Batch: 384427

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.500	0.818	*	ug/L		164	50 - 150
cis-1,2-Dichloroethene	0.500	0.763	*	ug/L		153	50 - 150
Vinyl chloride	0.500	0.770	*	ug/L		154	50 - 150

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.500	0.763	*	ug/L		153	50 - 150
1,1,1-Trichloroethane	0.500	0.775	*	ug/L		155	50 - 150
1,1,2,2-Tetrachloroethane	0.500	0.702		ug/L		140	50 - 150
1,1,2-Trichloroethane	0.500	0.753	*	ug/L		151	50 - 150
1,1-Dichloroethene	0.500	0.736		ug/L		147	50 - 150
1,1-Dichloropropene	0.500	0.703		ug/L		141	50 - 150
1,2,3-Trichlorobenzene	0.500	0.719		ug/L		144	50 - 150
1,2,3-Trichloropropane	0.500	0.773	*	ug/L		155	50 - 150
1,2,4-Trichlorobenzene	0.500	0.684		ug/L		137	50 - 150
1,2,4-Trimethylbenzene	0.500	0.673		ug/L		135	50 - 150
1,2-Dibromo-3-Chloropropane	0.500	0.674		ug/L		135	50 - 150
1,2-Dibromoethane	0.500	0.755	*	ug/L		151	50 - 150
1,2-Dichlorobenzene	0.500	0.688		ug/L		138	50 - 150
1,2-Dichloroethane	0.500	0.787	*	ug/L		157	50 - 150
1,2-Dichloropropane	0.500	0.760	*	ug/L		152	50 - 150

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-384427/6
Matrix: Water
Analysis Batch: 384427

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	0.500	0.662		ug/L		132	50 - 150
1,3-Dichlorobenzene	0.500	0.702		ug/L		140	50 - 150
1,3-Dichloropropane	0.500	0.727		ug/L		145	50 - 150
1,4-Dichlorobenzene	0.500	0.708		ug/L		142	50 - 150
2,2-Dichloropropane	0.500	0.799	*	ug/L		160	50 - 150
2-Butanone (MEK)	2.50	ND	*	ug/L		164	50 - 150
2-Chlorotoluene	0.500	0.687		ug/L		137	50 - 150
2-Hexanone	2.50	ND	*	ug/L		151	50 - 150
4-Chlorotoluene	0.500	0.655		ug/L		131	50 - 150
4-Isopropyltoluene	0.500	0.634		ug/L		127	50 - 150
4-Methyl-2-pentanone (MIBK)	2.50	ND		ug/L		149	50 - 150
Acetone	2.50	ND	*	ug/L		192	50 - 150
Benzene	0.500	0.746		ug/L		149	50 - 150
Bromobenzene	0.500	0.697		ug/L		139	50 - 150
Bromochloromethane	0.500	0.767	*	ug/L		153	50 - 150
Bromoform	0.500	0.700		ug/L		140	50 - 150
Bromomethane	0.500	0.737		ug/L		147	50 - 150
Carbon disulfide	0.500	0.648		ug/L		130	50 - 150
Carbon tetrachloride	0.500	0.635		ug/L		127	50 - 150
Chlorobenzene	0.500	0.734		ug/L		147	50 - 150
Chlorodibromomethane	0.500	0.739		ug/L		148	50 - 150
Chloroethane	0.500	0.756	*	ug/L		151	50 - 150
Chloroform	0.500	0.811	*	ug/L		162	50 - 150
Chloromethane	0.500	0.797	*	ug/L		159	50 - 150
cis-1,3-Dichloropropene	0.500	0.766	*	ug/L		153	50 - 150
Dibromomethane	0.500	0.748		ug/L		150	50 - 150
Dichlorobromomethane	0.500	0.723		ug/L		145	50 - 150
Dichlorodifluoromethane	0.500	0.576		ug/L		115	50 - 150
Ethylbenzene	0.500	0.690		ug/L		138	50 - 150
Hexachlorobutadiene	0.500	0.644		ug/L		129	50 - 150
Isopropylbenzene	0.500	0.679		ug/L		136	50 - 150
Methyl tert-butyl ether	0.500	0.748		ug/L		150	50 - 150
Methylene Chloride	0.500	ND	*	ug/L		223	50 - 150
m-Xylene & p-Xylene	0.500	ND		ug/L		141	50 - 150
Naphthalene	0.500	0.696		ug/L		139	50 - 150
n-Butylbenzene	0.500	0.619		ug/L		124	50 - 150
n-Propylbenzene	0.500	0.669		ug/L		134	50 - 150
o-Xylene	0.500	0.727		ug/L		145	50 - 150
sec-Butylbenzene	0.500	0.615		ug/L		123	50 - 150
Styrene	0.500	0.658		ug/L		132	50 - 150
tert-Butylbenzene	0.500	0.647		ug/L		129	50 - 150
Tetrachloroethene	0.500	0.665		ug/L		133	50 - 150
Toluene	0.500	0.718		ug/L		144	50 - 150
trans-1,2-Dichloroethene	0.500	0.772	*	ug/L		154	50 - 150
trans-1,3-Dichloropropene	0.500	0.694		ug/L		139	50 - 150
Trichloroethene	0.500	0.674		ug/L		135	50 - 150
Trichlorofluoromethane	0.500	0.841	*	ug/L		168	50 - 150
Xylenes, Total	1.00	ND		ug/L		73	50 - 150

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-384427/6
Matrix: Water
Analysis Batch: 384427

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

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 480-384565/7
Matrix: Water
Analysis Batch: 384565

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/30/17 13:32	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/30/17 13:32	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/30/17 13:32	1

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
2-Butanone (MEK)	ND		10	10	ug/L			10/30/17 13:32	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
2-Hexanone	ND		10	10	ug/L			10/30/17 13:32	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/30/17 13:32	1
Acetone	ND		10	10	ug/L			10/30/17 13:32	1
Acrylonitrile	ND		10	10	ug/L			10/30/17 13:32	1
Allyl chloride	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Benzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Bromobenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Bromoform	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Bromomethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-384565/7
Matrix: Water
Analysis Batch: 384565

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Chloroethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Chloroform	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Chloromethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Dibromomethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Ethyl ether	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Iodomethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Methylene Chloride	ND		2.5	2.5	ug/L			10/30/17 13:32	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/30/17 13:32	1
Naphthalene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
o-Xylene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Styrene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
t-Butanol	ND		10	10	ug/L			10/30/17 13:32	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Toluene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 13:32	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/30/17 13:32	1
Trichloroethene	ND		0.20	0.20	ug/L			10/30/17 13:32	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 13:32	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/30/17 13:32	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/30/17 13:32	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/30/17 13:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*10/30/17 13:32*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*10/30/17 13:32*	*1*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-384565/4
Matrix: Water
Analysis Batch: 384565

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	4.00	3.98		ug/L		99	70 - 130
cis-1,2-Dichloroethene	4.00	3.97		ug/L		99	70 - 130
Vinyl chloride	4.00	3.68		ug/L		92	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.17		ug/L		104	70 - 130
1,1,1-Trichloroethane	4.00	3.75		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.62		ug/L		91	70 - 130
1,1,2-Trichloroethane	4.00	3.74		ug/L		93	70 - 130
1,1-Dichloroethene	4.00	3.90		ug/L		98	70 - 130
1,1-Dichloropropene	4.00	3.94		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	4.00	3.99		ug/L		100	70 - 130
1,2,3-Trichloropropane	4.00	3.95		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	4.00	3.89		ug/L		97	70 - 130
1,2,4-Trimethylbenzene	4.00	3.65		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.89		ug/L		97	70 - 130
1,2-Dibromoethane	4.00	3.92		ug/L		98	70 - 130
1,2-Dichlorobenzene	4.00	4.14		ug/L		104	70 - 130
1,2-Dichloroethane	4.00	3.90		ug/L		97	70 - 130
1,2-Dichloropropane	4.00	3.75		ug/L		94	70 - 130
1,3,5-Trimethylbenzene	4.00	3.72		ug/L		93	70 - 130
1,3-Dichlorobenzene	4.00	4.16		ug/L		104	70 - 130
1,3-Dichloropropane	4.00	3.64		ug/L		91	70 - 130
1,4-Dichlorobenzene	4.00	4.18		ug/L		105	70 - 130
2,2-Dichloropropane	4.00	4.29		ug/L		107	70 - 130
2-Butanone (MEK)	20.0	21.7		ug/L		108	70 - 130
2-Chlorotoluene	4.00	3.53		ug/L		88	70 - 130
2-Hexanone	20.0	19.4		ug/L		97	70 - 130
4-Chlorotoluene	4.00	3.51		ug/L		88	70 - 130
4-Isopropyltoluene	4.00	3.73		ug/L		93	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.0		ug/L		95	70 - 130
Acetone	20.0	23.5		ug/L		117	70 - 130
Benzene	4.00	3.86		ug/L		97	70 - 130
Bromobenzene	4.00	3.82		ug/L		96	70 - 130
Bromochloromethane	4.00	4.13		ug/L		103	70 - 130
Bromoform	4.00	4.15		ug/L		104	70 - 130
Bromomethane	4.00	2.82		ug/L		71	70 - 130
Carbon disulfide	4.00	3.84		ug/L		96	70 - 130
Carbon tetrachloride	4.00	3.78		ug/L		94	70 - 130
Chlorobenzene	4.00	3.84		ug/L		96	70 - 130
Chlorodibromomethane	4.00	4.05		ug/L		101	70 - 130
Chloroethane	4.00	3.56		ug/L		89	70 - 130
Chloroform	4.00	3.92		ug/L		98	70 - 130
Chloromethane	4.00	3.86		ug/L		97	70 - 130
cis-1,3-Dichloropropene	4.00	3.72		ug/L		93	70 - 130
Dibromomethane	4.00	3.54		ug/L		88	70 - 130
Dichlorobromomethane	4.00	3.61		ug/L		90	70 - 130
Dichlorodifluoromethane	4.00	3.45		ug/L		86	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-384565/4
Matrix: Water
Analysis Batch: 384565

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	4.00	3.54		ug/L		89	70 - 130
Hexachlorobutadiene	4.00	3.67		ug/L		92	70 - 130
Isopropylbenzene	4.00	3.84		ug/L		96	70 - 130
Methyl tert-butyl ether	4.00	3.83		ug/L		96	70 - 130
Methylene Chloride	4.00	3.90		ug/L		97	70 - 130
m-Xylene & p-Xylene	4.00	3.57		ug/L		89	70 - 130
Naphthalene	4.00	3.77		ug/L		94	70 - 130
n-Butylbenzene	4.00	3.46		ug/L		87	70 - 130
n-Propylbenzene	4.00	3.54		ug/L		89	70 - 130
o-Xylene	4.00	3.57		ug/L		89	70 - 130
sec-Butylbenzene	4.00	3.71		ug/L		93	70 - 130
Styrene	4.00	3.74		ug/L		93	70 - 130
tert-Butylbenzene	4.00	3.73		ug/L		93	70 - 130
Tetrachloroethene	4.00	4.36		ug/L		109	70 - 130
Toluene	4.00	3.59		ug/L		90	70 - 130
trans-1,2-Dichloroethene	4.00	3.81		ug/L		95	70 - 130
trans-1,3-Dichloropropene	4.00	3.53		ug/L		88	70 - 130
Trichloroethene	4.00	4.36		ug/L		109	70 - 130
Trichlorofluoromethane	4.00	4.33		ug/L		108	70 - 130
Xylenes, Total	8.00	7.14		ug/L		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*

Lab Sample ID: LCSD 480-384565/5
Matrix: Water
Analysis Batch: 384565

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	4.00	4.02		ug/L		101	70 - 130	1	20
cis-1,2-Dichloroethene	4.00	3.98		ug/L		100	70 - 130	0	20
Vinyl chloride	4.00	3.75		ug/L		94	70 - 130	2	20

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.00	4.15		ug/L		104	70 - 130	0	20
1,1,1-Trichloroethane	4.00	4.08		ug/L		102	70 - 130	8	20
1,1,2,2-Tetrachloroethane	4.00	3.64		ug/L		91	70 - 130	0	20
1,1,2-Trichloroethane	4.00	3.78		ug/L		95	70 - 130	1	20
1,1-Dichloroethene	4.00	4.28		ug/L		107	70 - 130	9	20
1,1-Dichloropropene	4.00	4.02		ug/L		101	70 - 130	2	20
1,2,3-Trichlorobenzene	4.00	4.01		ug/L		100	70 - 130	1	20
1,2,3-Trichloropropane	4.00	3.86		ug/L		97	70 - 130	2	20
1,2,4-Trichlorobenzene	4.00	3.99		ug/L		100	70 - 130	3	20
1,2,4-Trimethylbenzene	4.00	3.76		ug/L		94	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	4.00	3.74		ug/L		94	70 - 130	4	20
1,2-Dibromoethane	4.00	3.89		ug/L		97	70 - 130	1	20
1,2-Dichlorobenzene	4.00	4.21		ug/L		105	70 - 130	2	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-384565/5
Matrix: Water
Analysis Batch: 384565

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	4.00	3.98		ug/L		100	70 - 130	2	20
1,2-Dichloropropane	4.00	3.77		ug/L		94	70 - 130	0	20
1,3,5-Trimethylbenzene	4.00	3.80		ug/L		95	70 - 130	2	20
1,3-Dichlorobenzene	4.00	4.20		ug/L		105	70 - 130	1	20
1,3-Dichloropropane	4.00	3.66		ug/L		92	70 - 130	1	20
1,4-Dichlorobenzene	4.00	4.14		ug/L		104	70 - 130	1	20
2,2-Dichloropropane	4.00	4.08		ug/L		102	70 - 130	5	20
2-Butanone (MEK)	20.0	21.0		ug/L		105	70 - 130	3	20
2-Chlorotoluene	4.00	3.60		ug/L		90	70 - 130	2	20
2-Hexanone	20.0	18.7		ug/L		94	70 - 130	3	20
4-Chlorotoluene	4.00	3.57		ug/L		89	70 - 130	2	20
4-Isopropyltoluene	4.00	3.80		ug/L		95	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	20.0	18.4		ug/L		92	70 - 130	3	20
Acetone	20.0	23.4		ug/L		117	70 - 130	1	20
Benzene	4.00	3.93		ug/L		98	70 - 130	2	20
Bromobenzene	4.00	3.85		ug/L		96	70 - 130	1	20
Bromochloromethane	4.00	4.32		ug/L		108	70 - 130	4	20
Bromoform	4.00	4.11		ug/L		103	70 - 130	1	20
Bromomethane	4.00	2.84		ug/L		71	70 - 130	0	20
Carbon disulfide	4.00	3.95		ug/L		99	70 - 130	3	20
Carbon tetrachloride	4.00	3.90		ug/L		98	70 - 130	3	20
Chlorobenzene	4.00	3.87		ug/L		97	70 - 130	1	20
Chlorodibromomethane	4.00	4.02		ug/L		101	70 - 130	1	20
Chloroethane	4.00	3.60		ug/L		90	70 - 130	1	20
Chloroform	4.00	4.00		ug/L		100	70 - 130	2	20
Chloromethane	4.00	3.94		ug/L		99	70 - 130	2	20
cis-1,3-Dichloropropene	4.00	3.74		ug/L		93	70 - 130	0	20
Dibromomethane	4.00	3.51		ug/L		88	70 - 130	1	20
Dichlorobromomethane	4.00	3.63		ug/L		91	70 - 130	1	20
Dichlorodifluoromethane	4.00	3.61		ug/L		90	70 - 130	5	20
Ethylbenzene	4.00	3.56		ug/L		89	70 - 130	0	20
Hexachlorobutadiene	4.00	3.71		ug/L		93	70 - 130	1	20
Isopropylbenzene	4.00	3.90		ug/L		97	70 - 130	1	20
Methyl tert-butyl ether	4.00	3.90		ug/L		98	70 - 130	2	20
Methylene Chloride	4.00	3.99		ug/L		100	70 - 130	2	20
m-Xylene & p-Xylene	4.00	3.63		ug/L		91	70 - 130	2	20
Naphthalene	4.00	3.82		ug/L		96	70 - 130	1	20
n-Butylbenzene	4.00	3.55		ug/L		89	70 - 130	3	20
n-Propylbenzene	4.00	3.58		ug/L		89	70 - 130	1	20
o-Xylene	4.00	3.63		ug/L		91	70 - 130	2	20
sec-Butylbenzene	4.00	3.87		ug/L		97	70 - 130	4	20
Styrene	4.00	3.68		ug/L		92	70 - 130	2	20
tert-Butylbenzene	4.00	3.84		ug/L		96	70 - 130	3	20
Tetrachloroethene	4.00	4.33		ug/L		108	70 - 130	1	20
Toluene	4.00	3.69		ug/L		92	70 - 130	3	20
trans-1,2-Dichloroethene	4.00	3.94		ug/L		98	70 - 130	3	20
trans-1,3-Dichloropropene	4.00	3.51		ug/L		88	70 - 130	1	20
Trichloroethene	4.00	4.20		ug/L		105	70 - 130	4	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-384565/5
Matrix: Water
Analysis Batch: 384565

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane			4.00	4.38		ug/L		110	70 - 130	1	20
Xylenes, Total			8.00	7.26		ug/L		91	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*

Lab Sample ID: LLCS 480-384565/6
Matrix: Water
Analysis Batch: 384565

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethane			0.500	0.642		ug/L		128	50 - 150		
cis-1,2-Dichloroethene			0.500	0.608		ug/L		122	50 - 150		
Vinyl chloride			0.500	0.587		ug/L		117	50 - 150		
Analyte			**Spike Added**	**LLCS Result**	**LLCS Qualifier**	**Unit**	**D**	**%Rec**	**%Rec. Limits**		
1,1,1,2-Tetrachloroethane			0.500	0.590		ug/L		118	50 - 150		
1,1,1-Trichloroethane			0.500	0.619		ug/L		124	50 - 150		
1,1,2,2-Tetrachloroethane			0.500	0.520		ug/L		104	50 - 150		
1,1,2-Trichloroethane			0.500	0.527		ug/L		105	50 - 150		
1,1-Dichloroethene			0.500	0.580		ug/L		116	50 - 150		
1,1-Dichloropropene			0.500	0.571		ug/L		114	50 - 150		
1,2,3-Trichlorobenzene			0.500	0.590		ug/L		118	50 - 150		
1,2,3-Trichloropropane			0.500	0.579		ug/L		116	50 - 150		
1,2,4-Trichlorobenzene			0.500	0.595		ug/L		119	50 - 150		
1,2,4-Trimethylbenzene			0.500	0.513		ug/L		103	50 - 150		
1,2-Dibromo-3-Chloropropane			0.500	0.526		ug/L		105	50 - 150		
1,2-Dibromoethane			0.500	0.531		ug/L		106	50 - 150		
1,2-Dichlorobenzene			0.500	0.587		ug/L		117	50 - 150		
1,2-Dichloroethane			0.500	0.544		ug/L		109	50 - 150		
1,2-Dichloropropane			0.500	0.526		ug/L		105	50 - 150		
1,3,5-Trimethylbenzene			0.500	0.528		ug/L		106	50 - 150		
1,3-Dichlorobenzene			0.500	0.604		ug/L		121	50 - 150		
1,3-Dichloropropane			0.500	0.521		ug/L		104	50 - 150		
1,4-Dichlorobenzene			0.500	0.574		ug/L		115	50 - 150		
2,2-Dichloropropane			0.500	0.586		ug/L		117	50 - 150		
2-Butanone (MEK)			2.50	ND		ug/L		124	50 - 150		
2-Chlorotoluene			0.500	ND		ug/L		100	50 - 150		
2-Hexanone			2.50	ND		ug/L		105	50 - 150		
4-Chlorotoluene			0.500	0.521		ug/L		104	50 - 150		
4-Isopropyltoluene			0.500	0.516		ug/L		103	50 - 150		
4-Methyl-2-pentanone (MIBK)			2.50	ND		ug/L		104	50 - 150		
Acetone			2.50	ND		ug/L		135	50 - 150		
Benzene			0.500	0.589		ug/L		118	50 - 150		
Bromobenzene			0.500	0.547		ug/L		109	50 - 150		
Bromochloromethane			0.500	0.620		ug/L		124	50 - 150		
Bromoform			0.500	0.534		ug/L		107	50 - 150		

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-384565/6
Matrix: Water
Analysis Batch: 384565

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	0.500	ND		ug/L		91	50 - 150
Carbon disulfide	0.500	0.538		ug/L		108	50 - 150
Carbon tetrachloride	0.500	0.573		ug/L		115	50 - 150
Chlorobenzene	0.500	0.541		ug/L		108	50 - 150
Chlorodibromomethane	0.500	0.552		ug/L		110	50 - 150
Chloroethane	0.500	0.594		ug/L		119	50 - 150
Chloroform	0.500	0.598		ug/L		120	50 - 150
Chloromethane	0.500	0.574		ug/L		115	50 - 150
cis-1,3-Dichloropropene	0.500	0.524		ug/L		105	50 - 150
Dibromomethane	0.500	0.519		ug/L		104	50 - 150
Dichlorobromomethane	0.500	0.501		ug/L		100	50 - 150
Dichlorodifluoromethane	0.500	ND		ug/L		95	50 - 150
Ethylbenzene	0.500	0.517		ug/L		103	50 - 150
Hexachlorobutadiene	0.500	0.524		ug/L		105	50 - 150
Isopropylbenzene	0.500	0.538		ug/L		108	50 - 150
Methyl tert-butyl ether	0.500	0.560		ug/L		112	50 - 150
Methylene Chloride	0.500	ND		ug/L		147	50 - 150
m-Xylene & p-Xylene	0.500	ND		ug/L		104	50 - 150
Naphthalene	0.500	0.525		ug/L		105	50 - 150
n-Butylbenzene	0.500	0.505		ug/L		101	50 - 150
n-Propylbenzene	0.500	0.509		ug/L		102	50 - 150
o-Xylene	0.500	0.525		ug/L		105	50 - 150
sec-Butylbenzene	0.500	0.540		ug/L		108	50 - 150
Styrene	0.500	0.523		ug/L		105	50 - 150
tert-Butylbenzene	0.500	0.540		ug/L		108	50 - 150
Tetrachloroethene	0.500	0.631		ug/L		126	50 - 150
Toluene	0.500	0.536		ug/L		107	50 - 150
trans-1,2-Dichloroethene	0.500	0.568		ug/L		114	50 - 150
trans-1,3-Dichloropropene	0.500	ND		ug/L		97	50 - 150
Trichloroethene	0.500	0.600		ug/L		120	50 - 150
Trichlorofluoromethane	0.500	0.592		ug/L		118	50 - 150
Xylenes, Total	1.00	ND		ug/L		53	50 - 150

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*

Lab Sample ID: 480-126333-30 MS
Matrix: Water
Analysis Batch: 384565

Client Sample ID: W-171017-MB-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND	*	4.00	3.85		ug/L		96	70 - 130
cis-1,2-Dichloroethene	ND	*	4.00	5.35	F1	ug/L		134	70 - 130
Vinyl chloride	ND	*	4.00	4.58		ug/L		115	70 - 130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND	*	4.00	4.89		ug/L		122	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-126333-30 MS
Matrix: Water
Analysis Batch: 384565

Client Sample ID: W-171017-MB-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	*	4.00	4.79		ug/L		120	70 - 130
1,1,2,2-Tetrachloroethane	ND		4.00	4.29		ug/L		107	70 - 130
1,1,2-Trichloroethane	ND	*	4.00	4.30		ug/L		108	70 - 130
1,1-Dichloroethene	ND		4.00	4.57		ug/L		114	70 - 130
1,1-Dichloropropene	ND		4.00	4.68		ug/L		117	70 - 130
1,2,3-Trichlorobenzene	ND		4.00	4.73		ug/L		118	70 - 130
1,2,3-Trichloropropane	ND	*	4.00	4.53		ug/L		113	70 - 130
1,2,4-Trichlorobenzene	ND		4.00	4.74		ug/L		118	70 - 130
1,2,4-Trimethylbenzene	ND		4.00	4.14		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	ND		4.00	4.39		ug/L		110	70 - 130
1,2-Dibromoethane	ND	*	4.00	4.46		ug/L		111	70 - 130
1,2-Dichlorobenzene	ND		4.00	5.03		ug/L		126	70 - 130
1,2-Dichloroethane	ND	*	4.00	4.57		ug/L		114	70 - 130
1,2-Dichloropropane	ND	*	4.00	4.42		ug/L		110	70 - 130
1,3,5-Trimethylbenzene	ND		4.00	4.10		ug/L		102	70 - 130
1,3-Dichlorobenzene	ND		4.00	5.01		ug/L		125	70 - 130
1,3-Dichloropropane	ND		4.00	4.34		ug/L		108	70 - 130
1,4-Dichlorobenzene	ND		4.00	5.06		ug/L		127	70 - 130
2,2-Dichloropropane	ND	F2 *	4.00	4.57		ug/L		114	70 - 130
2-Butanone (MEK)	ND	*	20.0	23.8		ug/L		119	70 - 130
2-Chlorotoluene	ND		4.00	4.34		ug/L		109	70 - 130
2-Hexanone	ND	*	20.0	21.7		ug/L		109	70 - 130
4-Chlorotoluene	ND		4.00	4.24		ug/L		106	70 - 130
4-Isopropyltoluene	ND		4.00	4.43		ug/L		111	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		20.0	21.0		ug/L		105	70 - 130
Acetone	ND	*	20.0	24.4		ug/L		122	70 - 130
Benzene	ND		4.00	4.64		ug/L		116	70 - 130
Bromobenzene	ND		4.00	4.69		ug/L		117	70 - 130
Bromochloromethane	ND	*	4.00	5.04		ug/L		126	70 - 130
Bromoform	ND		4.00	4.03		ug/L		101	70 - 130
Bromomethane	ND	F1	4.00	2.84		ug/L		71	70 - 130
Carbon disulfide	ND		4.00	4.57		ug/L		114	70 - 130
Carbon tetrachloride	ND		4.00	4.53		ug/L		113	70 - 130
Chlorobenzene	ND		4.00	4.65		ug/L		116	70 - 130
Chlorodibromomethane	ND		4.00	4.36		ug/L		109	70 - 130
Chloroethane	ND	F1 *	4.00	2.50	F1	ug/L		62	70 - 130
Chloroform	ND	*	4.00	4.70		ug/L		118	70 - 130
Chloromethane	ND	*	4.00	3.95		ug/L		99	70 - 130
cis-1,3-Dichloropropene	ND	*	4.00	4.26		ug/L		107	70 - 130
Dibromomethane	ND		4.00	4.21		ug/L		105	70 - 130
Dichlorobromomethane	ND		4.00	4.14		ug/L		103	70 - 130
Dichlorodifluoromethane	ND		4.00	4.11		ug/L		103	70 - 130
Ethylbenzene	ND		4.00	4.26		ug/L		106	70 - 130
Hexachlorobutadiene	ND		4.00	4.36		ug/L		109	70 - 130
Isopropylbenzene	ND		4.00	4.59		ug/L		115	70 - 130
Methyl tert-butyl ether	ND		4.00	4.45		ug/L		111	70 - 130
Methylene Chloride	ND	*	4.00	4.52		ug/L		113	70 - 130
m-Xylene & p-Xylene	ND		4.00	4.12		ug/L		103	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-126333-30 MS
Matrix: Water
Analysis Batch: 384565

Client Sample ID: W-171017-MB-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		4.00	4.32		ug/L		108	70 - 130
n-Butylbenzene	ND		4.00	4.21		ug/L		105	70 - 130
n-Propylbenzene	ND		4.00	4.22		ug/L		106	70 - 130
o-Xylene	ND		4.00	4.22		ug/L		105	70 - 130
sec-Butylbenzene	ND		4.00	4.56		ug/L		114	70 - 130
Styrene	ND		4.00	3.70		ug/L		92	70 - 130
tert-Butylbenzene	ND		4.00	4.63		ug/L		116	70 - 130
Tetrachloroethene	ND		4.00	5.18		ug/L		130	70 - 130
Toluene	ND		4.00	4.27		ug/L		107	70 - 130
trans-1,2-Dichloroethene	ND	*	4.00	4.57		ug/L		114	70 - 130
trans-1,3-Dichloropropene	ND		4.00	3.93		ug/L		98	70 - 130
Trichloroethene	ND		4.00	5.10		ug/L		128	70 - 130
Trichlorofluoromethane	ND	*	4.00	4.36		ug/L		109	70 - 130
Xylenes, Total	ND		8.00	8.34		ug/L		104	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*

Lab Sample ID: 480-126333-30 MSD
Matrix: Water
Analysis Batch: 384565

Client Sample ID: W-171017-MB-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND	*	4.00	3.65		ug/L		91	70 - 130	5	20
cis-1,2-Dichloroethene	ND	*	4.00	5.30	F1	ug/L		132	70 - 130	1	20
Vinyl chloride	ND	*	4.00	4.44		ug/L		111	70 - 130	3	20
Analyte	**Sample Result**	**Sample Qualifier**	**Spike Added**	**MSD Result**	**MSD Qualifier**	**Unit**	**D**	**%Rec**	**%Rec. Limits**	**RPD**	**RPD Limit**
1,1,1,2-Tetrachloroethane	ND	*	4.00	4.71		ug/L		118	70 - 130	4	20
1,1,1-Trichloroethane	ND	*	4.00	4.54		ug/L		114	70 - 130	5	20
1,1,2,2-Tetrachloroethane	ND		4.00	4.06		ug/L		101	70 - 130	6	20
1,1,2-Trichloroethane	ND	*	4.00	4.22		ug/L		105	70 - 130	2	20
1,1-Dichloroethene	ND		4.00	4.65		ug/L		116	70 - 130	2	20
1,1-Dichloropropene	ND		4.00	4.55		ug/L		114	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		4.00	4.49		ug/L		112	70 - 130	5	20
1,2,3-Trichloropropane	ND	*	4.00	4.45		ug/L		111	70 - 130	2	20
1,2,4-Trichlorobenzene	ND		4.00	4.52		ug/L		113	70 - 130	5	20
1,2,4-Trimethylbenzene	ND		4.00	3.83		ug/L		96	70 - 130	8	20
1,2-Dibromo-3-Chloropropane	ND		4.00	4.16		ug/L		104	70 - 130	5	20
1,2-Dibromoethane	ND	*	4.00	4.36		ug/L		109	70 - 130	2	20
1,2-Dichlorobenzene	ND		4.00	4.86		ug/L		122	70 - 130	3	20
1,2-Dichloroethane	ND	*	4.00	4.46		ug/L		111	70 - 130	2	20
1,2-Dichloropropane	ND	*	4.00	4.30		ug/L		108	70 - 130	3	20
1,3,5-Trimethylbenzene	ND		4.00	3.87		ug/L		97	70 - 130	6	20
1,3-Dichlorobenzene	ND		4.00	4.80		ug/L		120	70 - 130	4	20
1,3-Dichloropropane	ND		4.00	4.13		ug/L		103	70 - 130	5	20
1,4-Dichlorobenzene	ND		4.00	4.89		ug/L		122	70 - 130	3	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-126333-30 MSD
Matrix: Water
Analysis Batch: 384565

Client Sample ID: W-171017-MB-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2-Dichloropropane	ND	F2 *	4.00	4.45		ug/L		111	70 - 130	3	20
2-Butanone (MEK)	ND	*	20.0	22.4		ug/L		112	70 - 130	6	20
2-Chlorotoluene	ND		4.00	4.22		ug/L		106	70 - 130	3	20
2-Hexanone	ND	*	20.0	20.5		ug/L		103	70 - 130	6	20
4-Chlorotoluene	ND		4.00	4.04		ug/L		101	70 - 130	5	20
4-Isopropyltoluene	ND		4.00	4.30		ug/L		107	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		20.0	20.4		ug/L		102	70 - 130	3	20
Acetone	ND	*	20.0	23.6		ug/L		118	70 - 130	3	20
Benzene	ND		4.00	4.63		ug/L		116	70 - 130	0	20
Bromobenzene	ND		4.00	4.44		ug/L		111	70 - 130	6	20
Bromochloromethane	ND	*	4.00	5.01		ug/L		125	70 - 130	1	20
Bromoform	ND		4.00	3.89		ug/L		97	70 - 130	4	20
Bromomethane	ND	F1	4.00	2.61	F1	ug/L		65	70 - 130	8	20
Carbon disulfide	ND		4.00	6.45	F1 F2	ug/L		161	70 - 130	34	20
Carbon tetrachloride	ND		4.00	4.26		ug/L		106	70 - 130	6	20
Chlorobenzene	ND		4.00	4.45		ug/L		111	70 - 130	4	20
Chlorodibromomethane	ND		4.00	4.17		ug/L		104	70 - 130	5	20
Chloroethane	ND	F1 *	4.00	2.25	F1	ug/L		56	70 - 130	11	20
Chloroform	ND	*	4.00	4.60		ug/L		115	70 - 130	2	20
Chloromethane	ND	*	4.00	4.03		ug/L		101	70 - 130	2	20
cis-1,3-Dichloropropene	ND	*	4.00	4.17		ug/L		104	70 - 130	2	20
Dibromomethane	ND		4.00	4.06		ug/L		101	70 - 130	4	20
Dichlorobromomethane	ND		4.00	4.06		ug/L		102	70 - 130	2	20
Dichlorodifluoromethane	ND		4.00	4.23		ug/L		106	70 - 130	3	20
Ethylbenzene	ND		4.00	4.09		ug/L		102	70 - 130	4	20
Hexachlorobutadiene	ND		4.00	4.05		ug/L		101	70 - 130	7	20
Isopropylbenzene	ND		4.00	4.40		ug/L		110	70 - 130	4	20
Methyl tert-butyl ether	ND		4.00	4.37		ug/L		109	70 - 130	2	20
Methylene Chloride	ND	*	4.00	4.39		ug/L		110	70 - 130	3	20
m-Xylene & p-Xylene	ND		4.00	3.94		ug/L		99	70 - 130	4	20
Naphthalene	ND		4.00	4.11		ug/L		103	70 - 130	5	20
n-Butylbenzene	ND		4.00	4.02		ug/L		101	70 - 130	5	20
n-Propylbenzene	ND		4.00	4.02		ug/L		100	70 - 130	5	20
o-Xylene	ND		4.00	3.98		ug/L		100	70 - 130	6	20
sec-Butylbenzene	ND		4.00	4.27		ug/L		107	70 - 130	7	20
Styrene	ND		4.00	3.47		ug/L		87	70 - 130	6	20
tert-Butylbenzene	ND		4.00	4.42		ug/L		110	70 - 130	5	20
Tetrachloroethene	ND		4.00	4.96		ug/L		124	70 - 130	4	20
Toluene	ND		4.00	4.17		ug/L		104	70 - 130	2	20
trans-1,2-Dichloroethene	ND	*	4.00	4.45		ug/L		111	70 - 130	2	20
trans-1,3-Dichloropropene	ND		4.00	3.77		ug/L		94	70 - 130	4	20
Trichloroethene	ND		4.00	4.95		ug/L		124	70 - 130	3	20
Trichlorofluoromethane	ND	*	4.00	4.65		ug/L		116	70 - 130	6	20
Xylenes, Total	ND		8.00	7.92		ug/L		99	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*

QC Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Lab Sample ID: MB 480-384694/7
Matrix: Water
Analysis Batch: 384694

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/30/17 22:32	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/30/17 22:32	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/30/17 22:32	1

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
2-Butanone (MEK)	ND		10	10	ug/L			10/30/17 22:32	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
2-Hexanone	ND		10	10	ug/L			10/30/17 22:32	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/30/17 22:32	1
Acetone	ND		10	10	ug/L			10/30/17 22:32	1
Acrylonitrile	ND		10	10	ug/L			10/30/17 22:32	1
Allyl chloride	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Benzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Bromobenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Bromoform	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Bromomethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Chloroethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Chloroform	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Chloromethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Dibromomethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-384694/7
Matrix: Water
Analysis Batch: 384694

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Ethyl ether	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Iodomethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Methylene Chloride	ND		2.5	2.5	ug/L			10/30/17 22:32	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/30/17 22:32	1
Naphthalene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
o-Xylene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Styrene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
t-Butanol	ND		10	10	ug/L			10/30/17 22:32	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Toluene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/30/17 22:32	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/30/17 22:32	1
Trichloroethene	ND		0.20	0.20	ug/L			10/30/17 22:32	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/30/17 22:32	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/30/17 22:32	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/30/17 22:32	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/30/17 22:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*10/30/17 22:32*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*10/30/17 22:32*	*1*

Lab Sample ID: LCS 480-384694/4
Matrix: Water
Analysis Batch: 384694

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	4.00	4.35		ug/L		109	70 - 130
cis-1,2-Dichloroethene	4.00	4.56		ug/L		114	70 - 130
Vinyl chloride	4.00	4.18		ug/L		104	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.43		ug/L		111	70 - 130
1,1,1-Trichloroethane	4.00	4.10		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.85		ug/L		96	70 - 130
1,1,2-Trichloroethane	4.00	3.94		ug/L		99	70 - 130
1,1-Dichloroethene	4.00	4.38		ug/L		110	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-384694/4
Matrix: Water
Analysis Batch: 384694

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	4.00	4.20		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	4.00	4.31		ug/L		108	70 - 130
1,2,3-Trichloropropane	4.00	4.24		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	4.00	4.31		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	4.00	3.93		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.12		ug/L		103	70 - 130
1,2-Dibromoethane	4.00	4.20		ug/L		105	70 - 130
1,2-Dichlorobenzene	4.00	4.51		ug/L		113	70 - 130
1,2-Dichloroethane	4.00	4.23		ug/L		106	70 - 130
1,2-Dichloropropane	4.00	4.04		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	4.00	3.99		ug/L		100	70 - 130
1,3-Dichlorobenzene	4.00	4.38		ug/L		109	70 - 130
1,3-Dichloropropane	4.00	3.94		ug/L		98	70 - 130
1,4-Dichlorobenzene	4.00	4.42		ug/L		111	70 - 130
2,2-Dichloropropane	4.00	4.49		ug/L		112	70 - 130
2-Butanone (MEK)	20.0	24.2		ug/L		121	70 - 130
2-Chlorotoluene	4.00	3.79		ug/L		95	70 - 130
2-Hexanone	20.0	20.7		ug/L		103	70 - 130
4-Chlorotoluene	4.00	3.77		ug/L		94	70 - 130
4-Isopropyltoluene	4.00	4.02		ug/L		101	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.4		ug/L		102	70 - 130
Acetone	20.0	28.0	*	ug/L		140	70 - 130
Benzene	4.00	4.28		ug/L		107	70 - 130
Bromobenzene	4.00	4.24		ug/L		106	70 - 130
Bromochloromethane	4.00	4.64		ug/L		116	70 - 130
Bromoform	4.00	4.20		ug/L		105	70 - 130
Bromomethane	4.00	3.57		ug/L		89	70 - 130
Carbon disulfide	4.00	4.16		ug/L		104	70 - 130
Carbon tetrachloride	4.00	4.21		ug/L		105	70 - 130
Chlorobenzene	4.00	4.15		ug/L		104	70 - 130
Chlorodibromomethane	4.00	4.13		ug/L		103	70 - 130
Chloroethane	4.00	3.73		ug/L		93	70 - 130
Chloroform	4.00	4.38		ug/L		109	70 - 130
Chloromethane	4.00	4.78		ug/L		120	70 - 130
cis-1,3-Dichloropropene	4.00	4.07		ug/L		102	70 - 130
Dibromomethane	4.00	3.83		ug/L		96	70 - 130
Dichlorobromomethane	4.00	3.90		ug/L		98	70 - 130
Dichlorodifluoromethane	4.00	4.00		ug/L		100	70 - 130
Ethylbenzene	4.00	3.78		ug/L		94	70 - 130
Hexachlorobutadiene	4.00	3.78		ug/L		94	70 - 130
Isopropylbenzene	4.00	4.05		ug/L		101	70 - 130
Methyl tert-butyl ether	4.00	4.21		ug/L		105	70 - 130
Methylene Chloride	4.00	5.17		ug/L		129	70 - 130
m-Xylene & p-Xylene	4.00	3.79		ug/L		95	70 - 130
Naphthalene	4.00	4.01		ug/L		100	70 - 130
n-Butylbenzene	4.00	3.72		ug/L		93	70 - 130
n-Propylbenzene	4.00	3.75		ug/L		94	70 - 130
o-Xylene	4.00	3.80		ug/L		95	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-384694/4
Matrix: Water
Analysis Batch: 384694

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	4.00	3.94		ug/L		98	70 - 130
Styrene	4.00	3.98		ug/L		100	70 - 130
tert-Butylbenzene	4.00	4.01		ug/L		100	70 - 130
Tetrachloroethene	4.00	4.60		ug/L		115	70 - 130
Toluene	4.00	3.93		ug/L		98	70 - 130
trans-1,2-Dichloroethene	4.00	4.07		ug/L		102	70 - 130
trans-1,3-Dichloropropene	4.00	3.78		ug/L		95	70 - 130
Trichloroethene	4.00	4.61		ug/L		115	70 - 130
Trichlorofluoromethane	4.00	4.94		ug/L		124	70 - 130
Xylenes, Total	8.00	7.59		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*

Lab Sample ID: LCSD 480-384694/5
Matrix: Water
Analysis Batch: 384694

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	4.00	4.25		ug/L		106	70 - 130	2	20
cis-1,2-Dichloroethene	4.00	4.37		ug/L		109	70 - 130	4	20
Vinyl chloride	4.00	4.09		ug/L		102	70 - 130	2	20

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.00	4.27		ug/L		107	70 - 130	4	20
1,1,1-Trichloroethane	4.00	4.03		ug/L		101	70 - 130	2	20
1,1,2,2-Tetrachloroethane	4.00	3.80		ug/L		95	70 - 130	1	20
1,1,2-Trichloroethane	4.00	4.11		ug/L		103	70 - 130	4	20
1,1-Dichloroethene	4.00	4.22		ug/L		106	70 - 130	4	20
1,1-Dichloropropene	4.00	4.07		ug/L		102	70 - 130	3	20
1,2,3-Trichlorobenzene	4.00	4.25		ug/L		106	70 - 130	2	20
1,2,3-Trichloropropane	4.00	4.12		ug/L		103	70 - 130	3	20
1,2,4-Trichlorobenzene	4.00	4.07		ug/L		102	70 - 130	6	20
1,2,4-Trimethylbenzene	4.00	3.87		ug/L		97	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	4.00	4.04		ug/L		101	70 - 130	2	20
1,2-Dibromoethane	4.00	4.08		ug/L		102	70 - 130	3	20
1,2-Dichlorobenzene	4.00	4.37		ug/L		109	70 - 130	3	20
1,2-Dichloroethane	4.00	4.09		ug/L		102	70 - 130	4	20
1,2-Dichloropropane	4.00	3.94		ug/L		99	70 - 130	2	20
1,3,5-Trimethylbenzene	4.00	3.88		ug/L		97	70 - 130	3	20
1,3-Dichlorobenzene	4.00	4.37		ug/L		109	70 - 130	0	20
1,3-Dichloropropane	4.00	3.93		ug/L		98	70 - 130	0	20
1,4-Dichlorobenzene	4.00	4.30		ug/L		108	70 - 130	3	20
2,2-Dichloropropane	4.00	4.38		ug/L		109	70 - 130	2	20
2-Butanone (MEK)	20.0	23.0		ug/L		115	70 - 130	5	20
2-Chlorotoluene	4.00	4.20		ug/L		105	70 - 130	10	20
2-Hexanone	20.0	20.4		ug/L		102	70 - 130	1	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-384694/5
Matrix: Water
Analysis Batch: 384694

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorotoluene			4.00	3.71		ug/L		93	70 - 130	2	20
4-Isopropyltoluene			4.00	3.86		ug/L		96	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)			20.0	19.6		ug/L		98	70 - 130	4	20
Acetone			20.0	26.5	*	ug/L		133	70 - 130	5	20
Benzene			4.00	4.12		ug/L		103	70 - 130	4	20
Bromobenzene			4.00	4.05		ug/L		101	70 - 130	5	20
Bromochloromethane			4.00	4.60		ug/L		115	70 - 130	1	20
Bromoform			4.00	4.24		ug/L		106	70 - 130	1	20
Bromomethane			4.00	3.47		ug/L		87	70 - 130	3	20
Carbon disulfide			4.00	4.09		ug/L		102	70 - 130	2	20
Carbon tetrachloride			4.00	4.06		ug/L		101	70 - 130	4	20
Chlorobenzene			4.00	4.01		ug/L		100	70 - 130	3	20
Chlorodibromomethane			4.00	4.22		ug/L		105	70 - 130	2	20
Chloroethane			4.00	3.60		ug/L		90	70 - 130	3	20
Chloroform			4.00	4.21		ug/L		105	70 - 130	4	20
Chloromethane			4.00	4.42		ug/L		110	70 - 130	8	20
cis-1,3-Dichloropropene			4.00	3.98		ug/L		99	70 - 130	2	20
Dibromomethane			4.00	3.84		ug/L		96	70 - 130	0	20
Dichlorobromomethane			4.00	3.81		ug/L		95	70 - 130	2	20
Dichlorodifluoromethane			4.00	3.74		ug/L		94	70 - 130	7	20
Ethylbenzene			4.00	3.74		ug/L		94	70 - 130	1	20
Hexachlorobutadiene			4.00	3.66		ug/L		91	70 - 130	3	20
Isopropylbenzene			4.00	3.97		ug/L		99	70 - 130	2	20
Methyl tert-butyl ether			4.00	4.16		ug/L		104	70 - 130	1	20
Methylene Chloride			4.00	5.20		ug/L		130	70 - 130	1	20
m-Xylene & p-Xylene			4.00	3.76		ug/L		94	70 - 130	1	20
Naphthalene			4.00	3.96		ug/L		99	70 - 130	1	20
n-Butylbenzene			4.00	3.59		ug/L		90	70 - 130	4	20
n-Propylbenzene			4.00	3.66		ug/L		91	70 - 130	3	20
o-Xylene			4.00	3.75		ug/L		94	70 - 130	1	20
sec-Butylbenzene			4.00	3.83		ug/L		96	70 - 130	3	20
Styrene			4.00	3.94		ug/L		99	70 - 130	1	20
tert-Butylbenzene			4.00	3.92		ug/L		98	70 - 130	2	20
Tetrachloroethene			4.00	4.41		ug/L		110	70 - 130	4	20
Toluene			4.00	3.83		ug/L		96	70 - 130	2	20
trans-1,2-Dichloroethene			4.00	3.73		ug/L		93	70 - 130	9	20
trans-1,3-Dichloropropene			4.00	3.74		ug/L		93	70 - 130	1	20
Trichloroethene			4.00	4.50		ug/L		113	70 - 130	2	20
Trichlorofluoromethane			4.00	4.69		ug/L		117	70 - 130	5	20
Xylenes, Total			8.00	7.51		ug/L		94	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-384694/6
Matrix: Water
Analysis Batch: 384694

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.500	0.947	*	ug/L		189	50 - 150
cis-1,2-Dichloroethene	0.500	0.895	*	ug/L		179	50 - 150
Vinyl chloride	0.500	1.01	*	ug/L		202	50 - 150

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.500	0.828	*	ug/L		166	50 - 150
1,1,1-Trichloroethane	0.500	0.813	*	ug/L		163	50 - 150
1,1,2,2-Tetrachloroethane	0.500	0.710		ug/L		142	50 - 150
1,1,2-Trichloroethane	0.500	0.794	*	ug/L		159	50 - 150
1,1-Dichloroethene	0.500	0.761	*	ug/L		152	50 - 150
1,1-Dichloropropene	0.500	0.788	*	ug/L		158	50 - 150
1,2,3-Trichlorobenzene	0.500	0.778	*	ug/L		156	50 - 150
1,2,3-Trichloropropane	0.500	0.772	*	ug/L		154	50 - 150
1,2,4-Trichlorobenzene	0.500	0.753	*	ug/L		151	50 - 150
1,2,4-Trimethylbenzene	0.500	0.725		ug/L		145	50 - 150
1,2-Dibromo-3-Chloropropane	0.500	0.738		ug/L		148	50 - 150
1,2-Dibromoethane	0.500	0.789	*	ug/L		158	50 - 150
1,2-Dichlorobenzene	0.500	0.859	*	ug/L		172	50 - 150
1,2-Dichloroethane	0.500	0.821	*	ug/L		164	50 - 150
1,2-Dichloropropane	0.500	0.780	*	ug/L		156	50 - 150
1,3,5-Trimethylbenzene	0.500	0.730		ug/L		146	50 - 150
1,3-Dichlorobenzene	0.500	0.837	*	ug/L		167	50 - 150
1,3-Dichloropropane	0.500	0.777	*	ug/L		155	50 - 150
1,4-Dichlorobenzene	0.500	0.829	*	ug/L		166	50 - 150
2,2-Dichloropropane	0.500	0.863	*	ug/L		173	50 - 150
2-Butanone (MEK)	2.50	ND	*	ug/L		176	50 - 150
2-Chlorotoluene	0.500	0.737		ug/L		147	50 - 150
2-Hexanone	2.50	ND	*	ug/L		158	50 - 150
4-Chlorotoluene	0.500	0.675		ug/L		135	50 - 150
4-Isopropyltoluene	0.500	0.696		ug/L		139	50 - 150
4-Methyl-2-pentanone (MIBK)	2.50	ND	*	ug/L		154	50 - 150
Acetone	2.50	ND	*	ug/L		216	50 - 150
Benzene	0.500	0.845	*	ug/L		169	50 - 150
Bromobenzene	0.500	0.823	*	ug/L		165	50 - 150
Bromochloromethane	0.500	0.896	*	ug/L		179	50 - 150
Bromoform	0.500	0.757	*	ug/L		151	50 - 150
Bromomethane	0.500	0.833	*	ug/L		167	50 - 150
Carbon disulfide	0.500	0.819	*	ug/L		164	50 - 150
Carbon tetrachloride	0.500	0.806	*	ug/L		161	50 - 150
Chlorobenzene	0.500	0.812	*	ug/L		162	50 - 150
Chlorodibromomethane	0.500	0.761	*	ug/L		152	50 - 150
Chloroethane	0.500	0.836	*	ug/L		167	50 - 150
Chloroform	0.500	0.888	*	ug/L		178	50 - 150
Chloromethane	0.500	1.23	*	ug/L		245	50 - 150
cis-1,3-Dichloropropene	0.500	0.757	*	ug/L		151	50 - 150
Dibromomethane	0.500	0.733		ug/L		147	50 - 150
Dichlorobromomethane	0.500	0.747		ug/L		149	50 - 150
Dichlorodifluoromethane	0.500	0.742		ug/L		148	50 - 150

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-384694/6
Matrix: Water
Analysis Batch: 384694

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.500	0.727		ug/L		145	50 - 150
Hexachlorobutadiene	0.500	0.674		ug/L		135	50 - 150
Isopropylbenzene	0.500	0.736		ug/L		147	50 - 150
Methyl tert-butyl ether	0.500	0.803	*	ug/L		161	50 - 150
Methylene Chloride	0.500	ND	*	ug/L		346	50 - 150
m-Xylene & p-Xylene	0.500	ND		ug/L		145	50 - 150
Naphthalene	0.500	0.722		ug/L		144	50 - 150
n-Butylbenzene	0.500	0.658		ug/L		132	50 - 150
n-Propylbenzene	0.500	0.691		ug/L		138	50 - 150
o-Xylene	0.500	0.731		ug/L		146	50 - 150
sec-Butylbenzene	0.500	0.699		ug/L		140	50 - 150
Styrene	0.500	0.751		ug/L		150	50 - 150
tert-Butylbenzene	0.500	0.724		ug/L		145	50 - 150
Tetrachloroethene	0.500	0.859	*	ug/L		172	50 - 150
Toluene	0.500	0.776	*	ug/L		155	50 - 150
trans-1,2-Dichloroethene	0.500	0.905	*	ug/L		181	50 - 150
trans-1,3-Dichloropropene	0.500	0.703		ug/L		141	50 - 150
Trichloroethene	0.500	0.875	*	ug/L		175	50 - 150
Trichlorofluoromethane	0.500	0.992	*	ug/L		198	50 - 150
Xylenes, Total	1.00	ND		ug/L		73	50 - 150

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*

Lab Sample ID: 480-126333-54 MS
Matrix: Water
Analysis Batch: 384694

Client Sample ID: W-171018-MB-54
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND	*	4.00	4.00		ug/L		100	70 - 130
cis-1,2-Dichloroethene	ND	*	4.00	4.44		ug/L		111	70 - 130
Vinyl chloride	ND	*	4.00	3.68		ug/L		92	70 - 130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND	*	4.00	3.99		ug/L		100	70 - 130
1,1,1-Trichloroethane	ND	*	4.00	3.93		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	ND		4.00	3.49		ug/L		87	70 - 130
1,1,2-Trichloroethane	ND	*	4.00	3.68		ug/L		92	70 - 130
1,1-Dichloroethene	ND	*	4.00	3.65		ug/L		91	70 - 130
1,1-Dichloropropene	ND	*	4.00	3.88		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	ND	*	4.00	3.80		ug/L		95	70 - 130
1,2,3-Trichloropropane	ND	*	4.00	3.70		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	ND	*	4.00	3.71		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	ND		4.00	3.17		ug/L		79	70 - 130
1,2-Dibromo-3-Chloropropane	ND		4.00	3.51		ug/L		88	70 - 130
1,2-Dibromoethane	ND	*	4.00	3.72		ug/L		93	70 - 130
1,2-Dichlorobenzene	ND	*	4.00	4.01		ug/L		100	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-126333-54 MS
Matrix: Water
Analysis Batch: 384694

Client Sample ID: W-171018-MB-54
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	ND	*	4.00	3.72		ug/L		93	70 - 130
1,2-Dichloropropane	ND	*	4.00	3.66		ug/L		91	70 - 130
1,3,5-Trimethylbenzene	ND		4.00	3.07		ug/L		77	70 - 130
1,3-Dichlorobenzene	ND	*	4.00	4.01		ug/L		100	70 - 130
1,3-Dichloropropane	ND	*	4.00	3.55		ug/L		89	70 - 130
1,4-Dichlorobenzene	ND	*	4.00	4.06		ug/L		101	70 - 130
2,2-Dichloropropane	ND	* F2	4.00	3.36		ug/L		84	70 - 130
2-Butanone (MEK)	ND	*	20.0	20.6		ug/L		103	70 - 130
2-Chlorotoluene	ND		4.00	3.89		ug/L		97	70 - 130
2-Hexanone	ND	*	20.0	18.5		ug/L		93	70 - 130
4-Chlorotoluene	ND		4.00	3.31		ug/L		83	70 - 130
4-Isopropyltoluene	ND		4.00	3.47		ug/L		87	70 - 130
4-Methyl-2-pentanone (MIBK)	ND	*	20.0	18.0		ug/L		90	70 - 130
Acetone	ND	*	20.0	22.2		ug/L		111	70 - 130
Benzene	ND	*	4.00	3.89		ug/L		97	70 - 130
Bromobenzene	ND	*	4.00	3.86		ug/L		96	70 - 130
Bromochloromethane	ND	*	4.00	4.27		ug/L		107	70 - 130
Bromoform	ND	*	4.00	3.25		ug/L		81	70 - 130
Bromomethane	ND	* F1	4.00	1.94	F1	ug/L		48	70 - 130
Carbon disulfide	ND	*	4.00	4.35		ug/L		109	70 - 130
Carbon tetrachloride	ND	*	4.00	3.60		ug/L		90	70 - 130
Chlorobenzene	ND	*	4.00	3.82		ug/L		96	70 - 130
Chlorodibromomethane	ND	*	4.00	3.52		ug/L		88	70 - 130
Chloroethane	ND	* F1	4.00	1.96	F1	ug/L		49	70 - 130
Chloroform	ND	*	4.00	3.94		ug/L		99	70 - 130
Chloromethane	ND	*	4.00	3.20		ug/L		80	70 - 130
cis-1,3-Dichloropropene	ND	*	4.00	3.38		ug/L		84	70 - 130
Dibromomethane	ND		4.00	3.43		ug/L		86	70 - 130
Dichlorobromomethane	ND		4.00	3.42		ug/L		85	70 - 130
Dichlorodifluoromethane	ND		4.00	2.82		ug/L		70	70 - 130
Ethylbenzene	ND		4.00	3.46		ug/L		87	70 - 130
Hexachlorobutadiene	ND		4.00	3.13		ug/L		78	70 - 130
Isopropylbenzene	ND		4.00	3.71		ug/L		93	70 - 130
Methyl tert-butyl ether	ND	*	4.00	3.69		ug/L		92	70 - 130
Methylene Chloride	ND	*	4.00	3.90		ug/L		98	70 - 130
m-Xylene & p-Xylene	ND		4.00	3.35		ug/L		84	70 - 130
Naphthalene	ND		4.00	3.50		ug/L		87	70 - 130
n-Butylbenzene	ND		4.00	3.13		ug/L		78	70 - 130
n-Propylbenzene	ND		4.00	3.32		ug/L		83	70 - 130
o-Xylene	ND		4.00	3.37		ug/L		84	70 - 130
sec-Butylbenzene	ND		4.00	3.51		ug/L		88	70 - 130
Styrene	ND	F1	4.00	2.62	F1	ug/L		65	70 - 130
tert-Butylbenzene	ND		4.00	3.67		ug/L		92	70 - 130
Tetrachloroethene	ND	*	4.00	4.23		ug/L		106	70 - 130
Toluene	ND	*	4.00	3.57		ug/L		89	70 - 130
trans-1,2-Dichloroethene	ND	*	4.00	3.79		ug/L		95	70 - 130
trans-1,3-Dichloropropene	ND		4.00	3.11		ug/L		78	70 - 130
Trichloroethene	ND	*	4.00	4.18		ug/L		105	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-126333-54 MS
Matrix: Water
Analysis Batch: 384694

Client Sample ID: W-171018-MB-54
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	ND	*	4.00	4.04		ug/L		101	70 - 130
Xylenes, Total	ND		8.00	6.72		ug/L		84	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*

Lab Sample ID: 480-126333-54 MSD
Matrix: Water
Analysis Batch: 384694

Client Sample ID: W-171018-MB-54
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND	*	4.00	3.76		ug/L		94	70 - 130	6	20
cis-1,2-Dichloroethene	ND	*	4.00	4.24		ug/L		106	70 - 130	5	20
Vinyl chloride	ND	*	4.00	3.96		ug/L		99	70 - 130	7	20
Analyte	**Sample Result**	**Sample Qualifier**	**Spike Added**	**MSD Result**	**MSD Qualifier**	**Unit**	**D**	**%Rec**	**%Rec. Limits**	**RPD**	**RPD Limit**
1,1,1,2-Tetrachloroethane	ND	*	4.00	3.74		ug/L		94	70 - 130	6	20
1,1,1-Trichloroethane	ND	*	4.00	3.70		ug/L		92	70 - 130	6	20
1,1,2,2-Tetrachloroethane	ND		4.00	3.25		ug/L		81	70 - 130	7	20
1,1,2-Trichloroethane	ND	*	4.00	3.46		ug/L		87	70 - 130	6	20
1,1-Dichloroethene	ND	*	4.00	3.67		ug/L		92	70 - 130	1	20
1,1-Dichloropropene	ND	*	4.00	3.66		ug/L		92	70 - 130	6	20
1,2,3-Trichlorobenzene	ND	*	4.00	3.53		ug/L		88	70 - 130	7	20
1,2,3-Trichloropropane	ND	*	4.00	3.55		ug/L		89	70 - 130	4	20
1,2,4-Trichlorobenzene	ND	*	4.00	3.53		ug/L		88	70 - 130	5	20
1,2,4-Trimethylbenzene	ND		4.00	2.92		ug/L		73	70 - 130	8	20
1,2-Dibromo-3-Chloropropane	ND		4.00	3.28		ug/L		82	70 - 130	7	20
1,2-Dibromoethane	ND	*	4.00	3.50		ug/L		87	70 - 130	6	20
1,2-Dichlorobenzene	ND	*	4.00	3.76		ug/L		94	70 - 130	6	20
1,2-Dichloroethane	ND	*	4.00	3.47		ug/L		87	70 - 130	7	20
1,2-Dichloropropane	ND	*	4.00	3.57		ug/L		89	70 - 130	3	20
1,3,5-Trimethylbenzene	ND		4.00	2.80		ug/L		70	70 - 130	9	20
1,3-Dichlorobenzene	ND	*	4.00	3.73		ug/L		93	70 - 130	7	20
1,3-Dichloropropane	ND	*	4.00	3.39		ug/L		85	70 - 130	5	20
1,4-Dichlorobenzene	ND	*	4.00	3.74		ug/L		93	70 - 130	8	20
2,2-Dichloropropane	ND	* F2	4.00	4.32	F2	ug/L		108	70 - 130	25	20
2-Butanone (MEK)	ND	*	20.0	19.5		ug/L		97	70 - 130	6	20
2-Chlorotoluene	ND		4.00	3.22		ug/L		81	70 - 130	19	20
2-Hexanone	ND	*	20.0	17.5		ug/L		87	70 - 130	6	20
4-Chlorotoluene	ND		4.00	3.20		ug/L		80	70 - 130	3	20
4-Isopropyltoluene	ND		4.00	3.27		ug/L		82	70 - 130	6	20
4-Methyl-2-pentanone (MIBK)	ND	*	20.0	17.5		ug/L		88	70 - 130	3	20
Acetone	ND	*	20.0	22.5		ug/L		112	70 - 130	1	20
Benzene	ND	*	4.00	3.69		ug/L		92	70 - 130	6	20
Bromobenzene	ND	*	4.00	3.52		ug/L		88	70 - 130	9	20
Bromochloromethane	ND	*	4.00	4.07		ug/L		102	70 - 130	5	20
Bromoform	ND	*	4.00	3.11		ug/L		78	70 - 130	5	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-126333-54 MSD
Matrix: Water
Analysis Batch: 384694

Client Sample ID: W-171018-MB-54
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND	* F1	4.00	2.37	F1	ug/L		59	70 - 130	20	20
Carbon disulfide	ND	*	4.00	4.10		ug/L		103	70 - 130	6	20
Carbon tetrachloride	ND	*	4.00	3.56		ug/L		89	70 - 130	1	20
Chlorobenzene	ND	*	4.00	3.62		ug/L		90	70 - 130	5	20
Chlorodibromomethane	ND	*	4.00	3.29		ug/L		82	70 - 130	7	20
Chloroethane	ND	* F1	4.00	2.30	F1	ug/L		57	70 - 130	16	20
Chloroform	ND	*	4.00	3.76		ug/L		94	70 - 130	5	20
Chloromethane	ND	*	4.00	3.39		ug/L		85	70 - 130	6	20
cis-1,3-Dichloropropene	ND	*	4.00	3.25		ug/L		81	70 - 130	4	20
Dibromomethane	ND		4.00	3.27		ug/L		82	70 - 130	5	20
Dichlorobromomethane	ND		4.00	3.25		ug/L		81	70 - 130	5	20
Dichlorodifluoromethane	ND		4.00	3.11		ug/L		78	70 - 130	10	20
Ethylbenzene	ND		4.00	3.26		ug/L		81	70 - 130	6	20
Hexachlorobutadiene	ND		4.00	3.18		ug/L		80	70 - 130	2	20
Isopropylbenzene	ND		4.00	3.49		ug/L		87	70 - 130	6	20
Methyl tert-butyl ether	ND	*	4.00	3.51		ug/L		88	70 - 130	5	20
Methylene Chloride	ND	*	4.00	3.71		ug/L		93	70 - 130	5	20
m-Xylene & p-Xylene	ND		4.00	3.08		ug/L		77	70 - 130	8	20
Naphthalene	ND		4.00	3.32		ug/L		83	70 - 130	5	20
n-Butylbenzene	ND		4.00	2.93		ug/L		73	70 - 130	7	20
n-Propylbenzene	ND		4.00	3.08		ug/L		77	70 - 130	8	20
o-Xylene	ND		4.00	3.13		ug/L		78	70 - 130	7	20
sec-Butylbenzene	ND		4.00	3.36		ug/L		84	70 - 130	4	20
Styrene	ND	F1	4.00	2.44	F1	ug/L		61	70 - 130	7	20
tert-Butylbenzene	ND		4.00	3.46		ug/L		86	70 - 130	6	20
Tetrachloroethene	ND	*	4.00	3.96		ug/L		99	70 - 130	7	20
Toluene	ND	*	4.00	3.36		ug/L		84	70 - 130	6	20
trans-1,2-Dichloroethene	ND	*	4.00	3.56		ug/L		89	70 - 130	6	20
trans-1,3-Dichloropropene	ND		4.00	2.95		ug/L		74	70 - 130	5	20
Trichloroethene	ND	*	4.00	3.95		ug/L		99	70 - 130	6	20
Trichlorofluoromethane	ND	*	4.00	4.18		ug/L		105	70 - 130	4	20
Xylenes, Total	ND		8.00	6.21		ug/L		78	70 - 130	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*

Lab Sample ID: MB 480-384754/7
Matrix: Water
Analysis Batch: 384754

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			10/31/17 11:48	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			10/31/17 11:48	1
Vinyl chloride	ND		0.20	0.18	ug/L			10/31/17 11:48	1

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-384754/7
Matrix: Water
Analysis Batch: 384754

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
2-Butanone (MEK)	ND		10	10	ug/L			10/31/17 11:48	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
2-Hexanone	ND		10	10	ug/L			10/31/17 11:48	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			10/31/17 11:48	1
Acetone	ND		10	10	ug/L			10/31/17 11:48	1
Acrylonitrile	ND		10	10	ug/L			10/31/17 11:48	1
Allyl chloride	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Benzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Bromobenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Bromochloromethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Bromoform	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Bromomethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Carbon disulfide	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Chlorobenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Chloroethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Chloroform	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Chloromethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Dibromomethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Ethyl ether	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Ethylbenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-384754/7
Matrix: Water
Analysis Batch: 384754

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Iodomethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Isopropylbenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Methylene Chloride	ND		2.5	2.5	ug/L			10/31/17 11:48	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			10/31/17 11:48	1
Naphthalene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
n-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
n-Propylbenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
o-Xylene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Styrene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
t-Butanol	ND		10	10	ug/L			10/31/17 11:48	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Tetrachloroethene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Toluene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			10/31/17 11:48	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			10/31/17 11:48	1
Trichloroethene	ND		0.20	0.20	ug/L			10/31/17 11:48	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			10/31/17 11:48	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			10/31/17 11:48	1
Vinyl acetate	ND		2.5	2.5	ug/L			10/31/17 11:48	1
Xylenes, Total	ND		1.0	1.0	ug/L			10/31/17 11:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*10/31/17 11:48*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*10/31/17 11:48*	*1*

Lab Sample ID: LCS 480-384754/4
Matrix: Water
Analysis Batch: 384754

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	4.00	3.91		ug/L		98	70 - 130
cis-1,2-Dichloroethene	4.00	4.30		ug/L		108	70 - 130
Vinyl chloride	4.00	3.78		ug/L		95	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.98		ug/L		100	70 - 130
1,1,1-Trichloroethane	4.00	3.95		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.45		ug/L		86	70 - 130
1,1,2-Trichloroethane	4.00	3.64		ug/L		91	70 - 130
1,1-Dichloroethene	4.00	3.94		ug/L		99	70 - 130
1,1-Dichloropropene	4.00	3.95		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	4.00	3.86		ug/L		97	70 - 130
1,2,3-Trichloropropane	4.00	3.76		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	4.00	3.84		ug/L		96	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-384754/4
Matrix: Water
Analysis Batch: 384754

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	4.00	3.63		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.69		ug/L		92	70 - 130
1,2-Dibromoethane	4.00	3.69		ug/L		92	70 - 130
1,2-Dichlorobenzene	4.00	4.08		ug/L		102	70 - 130
1,2-Dichloroethane	4.00	3.90		ug/L		97	70 - 130
1,2-Dichloropropane	4.00	3.70		ug/L		92	70 - 130
1,3,5-Trimethylbenzene	4.00	3.68		ug/L		92	70 - 130
1,3-Dichlorobenzene	4.00	4.10		ug/L		102	70 - 130
1,3-Dichloropropane	4.00	3.54		ug/L		89	70 - 130
1,4-Dichlorobenzene	4.00	4.16		ug/L		104	70 - 130
2,2-Dichloropropane	4.00	4.49		ug/L		112	70 - 130
2-Butanone (MEK)	20.0	21.0		ug/L		105	70 - 130
2-Chlorotoluene	4.00	3.48		ug/L		87	70 - 130
2-Hexanone	20.0	18.2		ug/L		91	70 - 130
4-Chlorotoluene	4.00	3.49		ug/L		87	70 - 130
4-Isopropyltoluene	4.00	3.68		ug/L		92	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	17.6		ug/L		88	70 - 130
Acetone	20.0	24.7		ug/L		123	70 - 130
Benzene	4.00	3.92		ug/L		98	70 - 130
Bromobenzene	4.00	3.81		ug/L		95	70 - 130
Bromochloromethane	4.00	4.30		ug/L		108	70 - 130
Bromoform	4.00	3.82		ug/L		96	70 - 130
Bromomethane	4.00	2.91		ug/L		73	70 - 130
Carbon disulfide	4.00	3.94		ug/L		99	70 - 130
Carbon tetrachloride	4.00	3.71		ug/L		93	70 - 130
Chlorobenzene	4.00	3.73		ug/L		93	70 - 130
Chlorodibromomethane	4.00	3.81		ug/L		95	70 - 130
Chloroethane	4.00	3.29		ug/L		82	70 - 130
Chloroform	4.00	3.91		ug/L		98	70 - 130
Chloromethane	4.00	4.19		ug/L		105	70 - 130
cis-1,3-Dichloropropene	4.00	3.66		ug/L		92	70 - 130
Dibromomethane	4.00	3.46		ug/L		86	70 - 130
Dichlorobromomethane	4.00	3.49		ug/L		87	70 - 130
Dichlorodifluoromethane	4.00	3.48		ug/L		87	70 - 130
Ethylbenzene	4.00	3.44		ug/L		86	70 - 130
Hexachlorobutadiene	4.00	3.51		ug/L		88	70 - 130
Isopropylbenzene	4.00	3.72		ug/L		93	70 - 130
Methyl tert-butyl ether	4.00	3.79		ug/L		95	70 - 130
Methylene Chloride	4.00	4.16		ug/L		104	70 - 130
m-Xylene & p-Xylene	4.00	3.47		ug/L		87	70 - 130
Naphthalene	4.00	3.57		ug/L		89	70 - 130
n-Butylbenzene	4.00	3.43		ug/L		86	70 - 130
n-Propylbenzene	4.00	3.43		ug/L		86	70 - 130
o-Xylene	4.00	3.49		ug/L		87	70 - 130
sec-Butylbenzene	4.00	3.72		ug/L		93	70 - 130
Styrene	4.00	3.57		ug/L		89	70 - 130
tert-Butylbenzene	4.00	3.68		ug/L		92	70 - 130
Tetrachloroethene	4.00	4.21		ug/L		105	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-384754/4
Matrix: Water
Analysis Batch: 384754

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	4.00	3.57		ug/L		89	70 - 130
trans-1,2-Dichloroethene	4.00	3.45		ug/L		86	70 - 130
trans-1,3-Dichloropropene	4.00	3.43		ug/L		86	70 - 130
Trichloroethene	4.00	4.16		ug/L		104	70 - 130
Trichlorofluoromethane	4.00	4.30		ug/L		107	70 - 130
Xylenes, Total	8.00	6.96		ug/L		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*

Lab Sample ID: LCSD 480-384754/5
Matrix: Water
Analysis Batch: 384754

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	4.00	3.99		ug/L		100	70 - 130	2	20
cis-1,2-Dichloroethene	4.00	4.13		ug/L		103	70 - 130	4	20
Vinyl chloride	4.00	3.82		ug/L		95	70 - 130	1	20
Analyte	**Spike Added**	**LCSD Result**	**LCSD Qualifier**	**Unit**	**D**	**%Rec**	**%Rec. Limits**	**RPD**	**RPD Limit**
1,1,1,2-Tetrachloroethane	4.00	4.06		ug/L		102	70 - 130	2	20
1,1,1-Trichloroethane	4.00	4.01		ug/L		100	70 - 130	2	20
1,1,2,2-Tetrachloroethane	4.00	3.43		ug/L		86	70 - 130	1	20
1,1,2-Trichloroethane	4.00	3.68		ug/L		92	70 - 130	1	20
1,1-Dichloroethene	4.00	3.89		ug/L		97	70 - 130	1	20
1,1-Dichloropropene	4.00	4.03		ug/L		101	70 - 130	2	20
1,2,3-Trichlorobenzene	4.00	3.91		ug/L		98	70 - 130	1	20
1,2,3-Trichloropropane	4.00	3.76		ug/L		94	70 - 130	0	20
1,2,4-Trichlorobenzene	4.00	3.92		ug/L		98	70 - 130	2	20
1,2,4-Trimethylbenzene	4.00	3.64		ug/L		91	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	4.00	3.55		ug/L		89	70 - 130	4	20
1,2-Dibromoethane	4.00	3.82		ug/L		96	70 - 130	4	20
1,2-Dichlorobenzene	4.00	4.15		ug/L		104	70 - 130	2	20
1,2-Dichloroethane	4.00	3.87		ug/L		97	70 - 130	1	20
1,2-Dichloropropane	4.00	3.75		ug/L		94	70 - 130	1	20
1,3,5-Trimethylbenzene	4.00	3.67		ug/L		92	70 - 130	0	20
1,3-Dichlorobenzene	4.00	4.05		ug/L		101	70 - 130	1	20
1,3-Dichloropropane	4.00	3.65		ug/L		91	70 - 130	3	20
1,4-Dichlorobenzene	4.00	4.16		ug/L		104	70 - 130	0	20
2,2-Dichloropropane	4.00	4.36		ug/L		109	70 - 130	3	20
2-Butanone (MEK)	20.0	20.7		ug/L		103	70 - 130	2	20
2-Chlorotoluene	4.00	3.47		ug/L		87	70 - 130	0	20
2-Hexanone	20.0	18.7		ug/L		93	70 - 130	3	20
4-Chlorotoluene	4.00	3.48		ug/L		87	70 - 130	0	20
4-Isopropyltoluene	4.00	3.72		ug/L		93	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	20.0	18.1		ug/L		90	70 - 130	3	20
Acetone	20.0	24.7		ug/L		123	70 - 130	0	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-384754/5
Matrix: Water
Analysis Batch: 384754

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	4.00	3.91		ug/L		98	70 - 130	0	20
Bromobenzene	4.00	3.86		ug/L		97	70 - 130	1	20
Bromochloromethane	4.00	4.31		ug/L		108	70 - 130	0	20
Bromoform	4.00	3.88		ug/L		97	70 - 130	2	20
Bromomethane	4.00	3.00		ug/L		75	70 - 130	3	20
Carbon disulfide	4.00	4.21		ug/L		105	70 - 130	6	20
Carbon tetrachloride	4.00	3.59		ug/L		90	70 - 130	3	20
Chlorobenzene	4.00	3.87		ug/L		97	70 - 130	4	20
Chlorodibromomethane	4.00	3.79		ug/L		95	70 - 130	1	20
Chloroethane	4.00	3.49		ug/L		87	70 - 130	6	20
Chloroform	4.00	3.94		ug/L		98	70 - 130	1	20
Chloromethane	4.00	4.30		ug/L		107	70 - 130	3	20
cis-1,3-Dichloropropene	4.00	3.67		ug/L		92	70 - 130	0	20
Dibromomethane	4.00	3.52		ug/L		88	70 - 130	2	20
Dichlorobromomethane	4.00	3.49		ug/L		87	70 - 130	0	20
Dichlorodifluoromethane	4.00	3.40		ug/L		85	70 - 130	2	20
Ethylbenzene	4.00	3.56		ug/L		89	70 - 130	3	20
Hexachlorobutadiene	4.00	3.60		ug/L		90	70 - 130	2	20
Isopropylbenzene	4.00	3.83		ug/L		96	70 - 130	3	20
Methyl tert-butyl ether	4.00	3.75		ug/L		94	70 - 130	1	20
Methylene Chloride	4.00	4.12		ug/L		103	70 - 130	1	20
m-Xylene & p-Xylene	4.00	3.60		ug/L		90	70 - 130	4	20
Naphthalene	4.00	3.58		ug/L		90	70 - 130	0	20
n-Butylbenzene	4.00	3.42		ug/L		85	70 - 130	0	20
n-Propylbenzene	4.00	3.46		ug/L		87	70 - 130	1	20
o-Xylene	4.00	3.59		ug/L		90	70 - 130	3	20
sec-Butylbenzene	4.00	3.70		ug/L		93	70 - 130	0	20
Styrene	4.00	3.72		ug/L		93	70 - 130	4	20
tert-Butylbenzene	4.00	3.75		ug/L		94	70 - 130	2	20
Tetrachloroethene	4.00	4.40		ug/L		110	70 - 130	4	20
Toluene	4.00	3.63		ug/L		91	70 - 130	2	20
trans-1,2-Dichloroethene	4.00	3.81		ug/L		95	70 - 130	10	20
trans-1,3-Dichloropropene	4.00	3.40		ug/L		85	70 - 130	1	20
Trichloroethene	4.00	4.33		ug/L		108	70 - 130	4	20
Trichlorofluoromethane	4.00	4.44		ug/L		111	70 - 130	3	20
Xylenes, Total	8.00	7.19		ug/L		90	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*

Lab Sample ID: LLCS 480-384754/6
Matrix: Water
Analysis Batch: 384754

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.500	0.623		ug/L		125	50 - 150
cis-1,2-Dichloroethene	0.500	0.624		ug/L		125	50 - 150

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-384754/6
Matrix: Water
Analysis Batch: 384754

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	0.500	0.455		ug/L		91	50 - 150

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.500	0.592		ug/L		118	50 - 150
1,1,1-Trichloroethane	0.500	0.555		ug/L		111	50 - 150
1,1,2,2-Tetrachloroethane	0.500	ND		ug/L		98	50 - 150
1,1,2-Trichloroethane	0.500	0.552		ug/L		110	50 - 150
1,1-Dichloroethene	0.500	0.557		ug/L		111	50 - 150
1,1-Dichloropropene	0.500	0.608		ug/L		122	50 - 150
1,2,3-Trichlorobenzene	0.500	0.577		ug/L		115	50 - 150
1,2,3-Trichloropropane	0.500	0.512		ug/L		102	50 - 150
1,2,4-Trichlorobenzene	0.500	0.580		ug/L		116	50 - 150
1,2,4-Trimethylbenzene	0.500	0.530		ug/L		106	50 - 150
1,2-Dibromo-3-Chloropropane	0.500	ND		ug/L		98	50 - 150
1,2-Dibromoethane	0.500	0.546		ug/L		109	50 - 150
1,2-Dichlorobenzene	0.500	0.625		ug/L		125	50 - 150
1,2-Dichloroethane	0.500	0.577		ug/L		115	50 - 150
1,2-Dichloropropane	0.500	0.548		ug/L		110	50 - 150
1,3,5-Trimethylbenzene	0.500	0.536		ug/L		107	50 - 150
1,3-Dichlorobenzene	0.500	0.622		ug/L		124	50 - 150
1,3-Dichloropropane	0.500	0.545		ug/L		109	50 - 150
1,4-Dichlorobenzene	0.500	0.622		ug/L		124	50 - 150
2,2-Dichloropropane	0.500	0.661		ug/L		132	50 - 150
2-Butanone (MEK)	2.50	ND		ug/L		120	50 - 150
2-Chlorotoluene	0.500	0.513		ug/L		103	50 - 150
2-Hexanone	2.50	ND		ug/L		107	50 - 150
4-Chlorotoluene	0.500	0.543		ug/L		109	50 - 150
4-Isopropyltoluene	0.500	0.532		ug/L		106	50 - 150
4-Methyl-2-pentanone (MIBK)	2.50	ND		ug/L		107	50 - 150
Acetone	2.50	ND		ug/L		138	50 - 150
Benzene	0.500	0.570		ug/L		114	50 - 150
Bromobenzene	0.500	0.546		ug/L		109	50 - 150
Bromochloromethane	0.500	0.627		ug/L		125	50 - 150
Bromoform	0.500	0.511		ug/L		102	50 - 150
Bromomethane	0.500	ND		ug/L		83	50 - 150
Carbon disulfide	0.500	0.596		ug/L		119	50 - 150
Carbon tetrachloride	0.500	0.563		ug/L		113	50 - 150
Chlorobenzene	0.500	0.587		ug/L		117	50 - 150
Chlorodibromomethane	0.500	0.528		ug/L		106	50 - 150
Chloroethane	0.500	ND		ug/L		88	50 - 150
Chloroform	0.500	0.615		ug/L		123	50 - 150
Chloromethane	0.500	0.505		ug/L		101	50 - 150
cis-1,3-Dichloropropene	0.500	0.519		ug/L		104	50 - 150
Dibromomethane	0.500	0.501		ug/L		100	50 - 150
Dichlorobromomethane	0.500	0.502		ug/L		100	50 - 150
Dichlorodifluoromethane	0.500	ND		ug/L		69	50 - 150
Ethylbenzene	0.500	0.537		ug/L		107	50 - 150
Hexachlorobutadiene	0.500	0.536		ug/L		107	50 - 150

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-384754/6
Matrix: Water
Analysis Batch: 384754

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	0.500	0.551		ug/L		110	50 - 150
Methyl tert-butyl ether	0.500	0.548		ug/L		110	50 - 150
Methylene Chloride	0.500	ND	*	ug/L		174	50 - 150
m-Xylene & p-Xylene	0.500	ND		ug/L		105	50 - 150
Naphthalene	0.500	0.524		ug/L		105	50 - 150
n-Butylbenzene	0.500	0.501		ug/L		100	50 - 150
n-Propylbenzene	0.500	0.510		ug/L		102	50 - 150
o-Xylene	0.500	0.536		ug/L		107	50 - 150
sec-Butylbenzene	0.500	0.539		ug/L		108	50 - 150
Styrene	0.500	0.535		ug/L		107	50 - 150
tert-Butylbenzene	0.500	0.529		ug/L		106	50 - 150
Tetrachloroethene	0.500	0.625		ug/L		125	50 - 150
Toluene	0.500	0.557		ug/L		111	50 - 150
trans-1,2-Dichloroethene	0.500	0.550		ug/L		110	50 - 150
trans-1,3-Dichloropropene	0.500	ND		ug/L		93	50 - 150
Trichloroethene	0.500	0.593		ug/L		119	50 - 150
Trichlorofluoromethane	0.500	ND		ug/L		96	50 - 150
Xylenes, Total	1.00	ND		ug/L		54	50 - 150

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*

Lab Sample ID: MB 480-384903/7
Matrix: Water
Analysis Batch: 384903

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 02:25	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 02:25	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 02:25	1

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-384903/7
Matrix: Water
Analysis Batch: 384903

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 02:25	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
2-Hexanone	ND		10	10	ug/L			11/01/17 02:25	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 02:25	1
Acetone	ND		10	10	ug/L			11/01/17 02:25	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 02:25	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 02:25	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 02:25	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
t-Butanol	ND		10	10	ug/L			11/01/17 02:25	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 02:25	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-384903/7
Matrix: Water
Analysis Batch: 384903

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 02:25	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 02:25	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 02:25	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 02:25	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			11/01/17 02:25	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 02:25	1
Xylenes, Total	ND		1.0	1.0	ug/L			11/01/17 02:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*11/01/17 02:25*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*11/01/17 02:25*	*1*

Lab Sample ID: LCS 480-384903/4
Matrix: Water
Analysis Batch: 384903

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	4.00	4.12		ug/L		103	70 - 130
cis-1,2-Dichloroethene	4.00	4.34		ug/L		109	70 - 130
Vinyl chloride	4.00	4.33		ug/L		108	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.17		ug/L		104	70 - 130
1,1,1-Trichloroethane	4.00	3.90		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.51		ug/L		88	70 - 130
1,1,2-Trichloroethane	4.00	3.80		ug/L		95	70 - 130
1,1-Dichloroethene	4.00	3.91		ug/L		98	70 - 130
1,1-Dichloropropene	4.00	4.06		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	4.00	4.07		ug/L		102	70 - 130
1,2,3-Trichloropropane	4.00	3.76		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	4.00	3.99		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	4.00	3.68		ug/L		92	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.70		ug/L		93	70 - 130
1,2-Dibromoethane	4.00	3.84		ug/L		96	70 - 130
1,2-Dichlorobenzene	4.00	4.21		ug/L		105	70 - 130
1,2-Dichloroethane	4.00	3.93		ug/L		98	70 - 130
1,2-Dichloropropane	4.00	3.89		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	4.00	3.77		ug/L		94	70 - 130
1,3-Dichlorobenzene	4.00	4.20		ug/L		105	70 - 130
1,3-Dichloropropane	4.00	3.69		ug/L		92	70 - 130
1,4-Dichlorobenzene	4.00	4.30		ug/L		107	70 - 130
2,2-Dichloropropane	4.00	4.56		ug/L		114	70 - 130
2-Butanone (MEK)	20.0	20.9		ug/L		104	70 - 130
2-Chlorotoluene	4.00	3.58		ug/L		89	70 - 130
2-Hexanone	20.0	18.8		ug/L		94	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-384903/4
Matrix: Water
Analysis Batch: 384903

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	4.00	3.54		ug/L		88	70 - 130
4-Isopropyltoluene	4.00	3.79		ug/L		95	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.2		ug/L		91	70 - 130
Acetone	20.0	23.4		ug/L		117	70 - 130
Benzene	4.00	4.05		ug/L		101	70 - 130
Bromobenzene	4.00	3.96		ug/L		99	70 - 130
Bromochloromethane	4.00	4.43		ug/L		111	70 - 130
Bromoform	4.00	3.96		ug/L		99	70 - 130
Bromomethane	4.00	3.20		ug/L		80	70 - 130
Carbon disulfide	4.00	4.08		ug/L		102	70 - 130
Carbon tetrachloride	4.00	3.89		ug/L		97	70 - 130
Chlorobenzene	4.00	3.92		ug/L		98	70 - 130
Chlorodibromomethane	4.00	3.97		ug/L		99	70 - 130
Chloroethane	4.00	3.04		ug/L		76	70 - 130
Chloroform	4.00	4.03		ug/L		101	70 - 130
Chloromethane	4.00	4.70		ug/L		118	70 - 130
cis-1,3-Dichloropropene	4.00	3.78		ug/L		94	70 - 130
Dibromomethane	4.00	3.54		ug/L		89	70 - 130
Dichlorobromomethane	4.00	3.58		ug/L		90	70 - 130
Dichlorodifluoromethane	4.00	4.05		ug/L		101	70 - 130
Ethylbenzene	4.00	3.66		ug/L		91	70 - 130
Hexachlorobutadiene	4.00	3.60		ug/L		90	70 - 130
Isopropylbenzene	4.00	3.89		ug/L		97	70 - 130
Methyl tert-butyl ether	4.00	3.82		ug/L		95	70 - 130
Methylene Chloride	4.00	4.08		ug/L		102	70 - 130
m-Xylene & p-Xylene	4.00	3.63		ug/L		91	70 - 130
Naphthalene	4.00	3.67		ug/L		92	70 - 130
n-Butylbenzene	4.00	3.49		ug/L		87	70 - 130
n-Propylbenzene	4.00	3.58		ug/L		90	70 - 130
o-Xylene	4.00	3.65		ug/L		91	70 - 130
sec-Butylbenzene	4.00	3.77		ug/L		94	70 - 130
Styrene	4.00	3.72		ug/L		93	70 - 130
tert-Butylbenzene	4.00	3.77		ug/L		94	70 - 130
Tetrachloroethene	4.00	4.44		ug/L		111	70 - 130
Toluene	4.00	3.74		ug/L		93	70 - 130
trans-1,2-Dichloroethene	4.00	3.85		ug/L		96	70 - 130
trans-1,3-Dichloropropene	4.00	3.41		ug/L		85	70 - 130
Trichloroethene	4.00	4.42		ug/L		110	70 - 130
Trichlorofluoromethane	4.00	4.18		ug/L		105	70 - 130
Xylenes, Total	8.00	7.28		ug/L		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-384903/5
Matrix: Water
Analysis Batch: 384903

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	4.00	4.02		ug/L		101	70 - 130	2	20
cis-1,2-Dichloroethene	4.00	4.11		ug/L		103	70 - 130	5	20
Vinyl chloride	4.00	4.06		ug/L		101	70 - 130	7	20

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.00	4.12		ug/L		103	70 - 130	1	20
1,1,1-Trichloroethane	4.00	3.88		ug/L		97	70 - 130	1	20
1,1,2,2-Tetrachloroethane	4.00	3.60		ug/L		90	70 - 130	3	20
1,1,2-Trichloroethane	4.00	3.77		ug/L		94	70 - 130	1	20
1,1-Dichloroethene	4.00	3.24		ug/L		81	70 - 130	19	20
1,1-Dichloropropene	4.00	3.83		ug/L		96	70 - 130	6	20
1,2,3-Trichlorobenzene	4.00	3.94		ug/L		99	70 - 130	3	20
1,2,3-Trichloropropane	4.00	3.82		ug/L		96	70 - 130	2	20
1,2,4-Trichlorobenzene	4.00	3.98		ug/L		99	70 - 130	0	20
1,2,4-Trimethylbenzene	4.00	3.66		ug/L		92	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	4.00	3.80		ug/L		95	70 - 130	2	20
1,2-Dibromoethane	4.00	3.85		ug/L		96	70 - 130	0	20
1,2-Dichlorobenzene	4.00	4.22		ug/L		105	70 - 130	0	20
1,2-Dichloroethane	4.00	3.90		ug/L		97	70 - 130	1	20
1,2-Dichloropropane	4.00	3.82		ug/L		96	70 - 130	2	20
1,3,5-Trimethylbenzene	4.00	3.72		ug/L		93	70 - 130	1	20
1,3-Dichlorobenzene	4.00	4.25		ug/L		106	70 - 130	1	20
1,3-Dichloropropane	4.00	3.67		ug/L		92	70 - 130	0	20
1,4-Dichlorobenzene	4.00	4.19		ug/L		105	70 - 130	3	20
2,2-Dichloropropane	4.00	4.37		ug/L		109	70 - 130	4	20
2-Butanone (MEK)	20.0	21.1		ug/L		106	70 - 130	1	20
2-Chlorotoluene	4.00	3.47		ug/L		87	70 - 130	3	20
2-Hexanone	20.0	19.0		ug/L		95	70 - 130	1	20
4-Chlorotoluene	4.00	3.44		ug/L		86	70 - 130	3	20
4-Isopropyltoluene	4.00	3.71		ug/L		93	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	20.0	18.6		ug/L		93	70 - 130	3	20
Acetone	20.0	23.6		ug/L		118	70 - 130	1	20
Benzene	4.00	3.96		ug/L		99	70 - 130	2	20
Bromobenzene	4.00	4.00		ug/L		100	70 - 130	1	20
Bromochloromethane	4.00	4.45		ug/L		111	70 - 130	1	20
Bromoform	4.00	3.87		ug/L		97	70 - 130	2	20
Bromomethane	4.00	3.66		ug/L		91	70 - 130	13	20
Carbon disulfide	4.00	3.70		ug/L		92	70 - 130	10	20
Carbon tetrachloride	4.00	3.84		ug/L		96	70 - 130	1	20
Chlorobenzene	4.00	3.91		ug/L		98	70 - 130	0	20
Chlorodibromomethane	4.00	3.85		ug/L		96	70 - 130	3	20
Chloroethane	4.00	3.18		ug/L		80	70 - 130	5	20
Chloroform	4.00	3.98		ug/L		99	70 - 130	1	20
Chloromethane	4.00	4.48		ug/L		112	70 - 130	5	20
cis-1,3-Dichloropropene	4.00	3.77		ug/L		94	70 - 130	0	20
Dibromomethane	4.00	3.53		ug/L		88	70 - 130	0	20
Dichlorobromomethane	4.00	3.65		ug/L		91	70 - 130	2	20
Dichlorodifluoromethane	4.00	4.05		ug/L		101	70 - 130	0	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-384903/5
Matrix: Water
Analysis Batch: 384903

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	4.00	3.57		ug/L		89	70 - 130	2	20
Hexachlorobutadiene	4.00	3.49		ug/L		87	70 - 130	3	20
Isopropylbenzene	4.00	3.81		ug/L		95	70 - 130	2	20
Methyl tert-butyl ether	4.00	3.83		ug/L		96	70 - 130	0	20
Methylene Chloride	4.00	4.19		ug/L		105	70 - 130	3	20
m-Xylene & p-Xylene	4.00	3.60		ug/L		90	70 - 130	1	20
Naphthalene	4.00	3.63		ug/L		91	70 - 130	1	20
n-Butylbenzene	4.00	3.44		ug/L		86	70 - 130	1	20
n-Propylbenzene	4.00	3.51		ug/L		88	70 - 130	2	20
o-Xylene	4.00	3.62		ug/L		90	70 - 130	1	20
sec-Butylbenzene	4.00	3.64		ug/L		91	70 - 130	4	20
Styrene	4.00	3.73		ug/L		93	70 - 130	0	20
tert-Butylbenzene	4.00	3.74		ug/L		94	70 - 130	1	20
Tetrachloroethene	4.00	4.34		ug/L		108	70 - 130	2	20
Toluene	4.00	3.69		ug/L		92	70 - 130	1	20
trans-1,2-Dichloroethene	4.00	3.79		ug/L		95	70 - 130	1	20
trans-1,3-Dichloropropene	4.00	3.50		ug/L		88	70 - 130	3	20
Trichloroethene	4.00	4.38		ug/L		110	70 - 130	1	20
Trichlorofluoromethane	4.00	4.60		ug/L		115	70 - 130	10	20
Xylenes, Total	8.00	7.22		ug/L		90	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*

Lab Sample ID: LLCS 480-384903/6
Matrix: Water
Analysis Batch: 384903

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.500	0.594		ug/L		119	50 - 150
cis-1,2-Dichloroethene	0.500	0.560		ug/L		112	50 - 150
Vinyl chloride	0.500	0.537		ug/L		107	50 - 150

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.500	0.518		ug/L		104	50 - 150
1,1,1-Trichloroethane	0.500	0.538		ug/L		108	50 - 150
1,1,2,2-Tetrachloroethane	0.500	ND		ug/L		93	50 - 150
1,1,2-Trichloroethane	0.500	ND		ug/L		99	50 - 150
1,1-Dichloroethene	0.500	ND		ug/L		91	50 - 150
1,1-Dichloropropene	0.500	ND		ug/L		98	50 - 150
1,2,3-Trichlorobenzene	0.500	0.526		ug/L		105	50 - 150
1,2,3-Trichloropropane	0.500	0.523		ug/L		105	50 - 150
1,2,4-Trichlorobenzene	0.500	0.547		ug/L		109	50 - 150
1,2,4-Trimethylbenzene	0.500	ND		ug/L		98	50 - 150
1,2-Dibromo-3-Chloropropane	0.500	ND		ug/L		95	50 - 150
1,2-Dibromoethane	0.500	ND		ug/L		96	50 - 150
1,2-Dichlorobenzene	0.500	0.566		ug/L		113	50 - 150

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-384903/6
Matrix: Water
Analysis Batch: 384903

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	0.500	ND		ug/L		94	50 - 150
1,2-Dichloropropane	0.500	ND		ug/L		99	50 - 150
1,3,5-Trimethylbenzene	0.500	ND		ug/L		94	50 - 150
1,3-Dichlorobenzene	0.500	0.557		ug/L		111	50 - 150
1,3-Dichloropropane	0.500	ND		ug/L		94	50 - 150
1,4-Dichlorobenzene	0.500	0.580		ug/L		116	50 - 150
2,2-Dichloropropane	0.500	0.720		ug/L		144	50 - 150
2-Butanone (MEK)	2.50	ND		ug/L		106	50 - 150
2-Chlorotoluene	0.500	ND		ug/L		91	50 - 150
2-Hexanone	2.50	ND		ug/L		96	50 - 150
4-Chlorotoluene	0.500	ND		ug/L		96	50 - 150
4-Isopropyltoluene	0.500	ND		ug/L		94	50 - 150
4-Methyl-2-pentanone (MIBK)	2.50	ND		ug/L		94	50 - 150
Acetone	2.50	ND		ug/L		120	50 - 150
Benzene	0.500	0.505		ug/L		101	50 - 150
Bromobenzene	0.500	0.503		ug/L		101	50 - 150
Bromochloromethane	0.500	0.522		ug/L		104	50 - 150
Bromoform	0.500	ND		ug/L		93	50 - 150
Bromomethane	0.500	ND		ug/L		80	50 - 150
Carbon disulfide	0.500	ND		ug/L		99	50 - 150
Carbon tetrachloride	0.500	ND		ug/L		91	50 - 150
Chlorobenzene	0.500	ND		ug/L		99	50 - 150
Chlorodibromomethane	0.500	ND		ug/L		95	50 - 150
Chloroethane	0.500	ND		ug/L		74	50 - 150
Chloroform	0.500	0.547		ug/L		109	50 - 150
Chloromethane	0.500	0.637		ug/L		127	50 - 150
cis-1,3-Dichloropropene	0.500	ND		ug/L		92	50 - 150
Dibromomethane	0.500	ND		ug/L		93	50 - 150
Dichlorobromomethane	0.500	ND		ug/L		88	50 - 150
Dichlorodifluoromethane	0.500	ND		ug/L		86	50 - 150
Ethylbenzene	0.500	ND		ug/L		92	50 - 150
Hexachlorobutadiene	0.500	ND		ug/L		93	50 - 150
Isopropylbenzene	0.500	ND		ug/L		96	50 - 150
Methyl tert-butyl ether	0.500	ND		ug/L		97	50 - 150
Methylene Chloride	0.500	ND		ug/L		145	50 - 150
m-Xylene & p-Xylene	0.500	ND		ug/L		92	50 - 150
Naphthalene	0.500	ND		ug/L		97	50 - 150
n-Butylbenzene	0.500	ND		ug/L		90	50 - 150
n-Propylbenzene	0.500	ND		ug/L		90	50 - 150
o-Xylene	0.500	ND		ug/L		93	50 - 150
sec-Butylbenzene	0.500	ND		ug/L		95	50 - 150
Styrene	0.500	ND		ug/L		94	50 - 150
tert-Butylbenzene	0.500	ND		ug/L		94	50 - 150
Tetrachloroethene	0.500	0.538		ug/L		108	50 - 150
Toluene	0.500	ND		ug/L		96	50 - 150
trans-1,2-Dichloroethene	0.500	0.535		ug/L		107	50 - 150
trans-1,3-Dichloropropene	0.500	ND		ug/L		86	50 - 150
Trichloroethene	0.500	0.547		ug/L		109	50 - 150

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-384903/6
Matrix: Water
Analysis Batch: 384903

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichlorofluoromethane			0.500	ND		ug/L		95	50 - 150		
Xylenes, Total			1.00	ND	*	ug/L		0	50 - 150		

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*

Lab Sample ID: 480-126333-73 MS
Matrix: Water
Analysis Batch: 384903

Client Sample ID: W-171019-MB-73
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethane	ND		4.00	3.85		ug/L		96	70 - 130		
cis-1,2-Dichloroethene	ND		4.00	4.43		ug/L		111	70 - 130		
Vinyl chloride	ND		4.00	4.04		ug/L		101	70 - 130		

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1,2-Tetrachloroethane	ND		4.00	3.72		ug/L		93	70 - 130		
1,1,1-Trichloroethane	ND		4.00	3.92		ug/L		98	70 - 130		
1,1,2,2-Tetrachloroethane	ND		4.00	3.29		ug/L		82	70 - 130		
1,1,2-Trichloroethane	ND		4.00	3.49		ug/L		87	70 - 130		
1,1-Dichloroethene	ND		4.00	3.79		ug/L		95	70 - 130		
1,1-Dichloropropene	ND		4.00	3.64		ug/L		91	70 - 130		
1,2,3-Trichlorobenzene	ND		4.00	3.53		ug/L		88	70 - 130		
1,2,3-Trichloropropane	ND		4.00	3.54		ug/L		89	70 - 130		
1,2,4-Trichlorobenzene	ND		4.00	3.38		ug/L		85	70 - 130		
1,2,4-Trimethylbenzene	ND		4.00	3.03		ug/L		76	70 - 130		
1,2-Dibromo-3-Chloropropane	ND		4.00	3.27		ug/L		82	70 - 130		
1,2-Dibromoethane	ND		4.00	3.56		ug/L		89	70 - 130		
1,2-Dichlorobenzene	ND		4.00	3.83		ug/L		96	70 - 130		
1,2-Dichloroethane	ND		4.00	3.59		ug/L		90	70 - 130		
1,2-Dichloropropane	ND		4.00	3.66		ug/L		92	70 - 130		
1,3,5-Trimethylbenzene	ND		4.00	2.96		ug/L		74	70 - 130		
1,3-Dichlorobenzene	ND		4.00	3.66		ug/L		92	70 - 130		
1,3-Dichloropropane	ND		4.00	3.34		ug/L		83	70 - 130		
1,4-Dichlorobenzene	ND		4.00	3.75		ug/L		94	70 - 130		
2,2-Dichloropropane	ND		4.00	3.23		ug/L		81	70 - 130		
2-Butanone (MEK)	ND		20.0	19.3		ug/L		96	70 - 130		
2-Chlorotoluene	ND		4.00	3.22		ug/L		81	70 - 130		
2-Hexanone	ND		20.0	16.8		ug/L		84	70 - 130		
4-Chlorotoluene	ND		4.00	3.14		ug/L		78	70 - 130		
4-Isopropyltoluene	ND		4.00	3.07		ug/L		77	70 - 130		
4-Methyl-2-pentanone (MIBK)	ND		20.0	17.0		ug/L		85	70 - 130		
Acetone	ND		20.0	20.6		ug/L		103	70 - 130		
Benzene	ND		4.00	3.69		ug/L		92	70 - 130		
Bromobenzene	ND		4.00	3.56		ug/L		89	70 - 130		
Bromochloromethane	ND		4.00	4.09		ug/L		102	70 - 130		
Bromoform	ND		4.00	2.93		ug/L		73	70 - 130		

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-126333-73 MS
Matrix: Water
Analysis Batch: 384903

Client Sample ID: W-171019-MB-73
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	ND	F1	4.00	2.33	F1	ug/L		58	70 - 130
Carbon disulfide	ND		4.00	4.11		ug/L		103	70 - 130
Carbon tetrachloride	ND		4.00	3.51		ug/L		88	70 - 130
Chlorobenzene	ND		4.00	3.60		ug/L		90	70 - 130
Chlorodibromomethane	ND		4.00	3.33		ug/L		83	70 - 130
Chloroethane	ND	F1	4.00	1.71	F1	ug/L		43	70 - 130
Chloroform	ND		4.00	3.70		ug/L		93	70 - 130
Chloromethane	ND		4.00	3.30		ug/L		82	70 - 130
cis-1,3-Dichloropropene	ND		4.00	3.35		ug/L		84	70 - 130
Dibromomethane	ND		4.00	3.45		ug/L		86	70 - 130
Dichlorobromomethane	ND		4.00	3.36		ug/L		84	70 - 130
Dichlorodifluoromethane	ND		4.00	3.24		ug/L		81	70 - 130
Ethylbenzene	ND		4.00	3.19		ug/L		80	70 - 130
Hexachlorobutadiene	ND		4.00	2.82		ug/L		71	70 - 130
Isopropylbenzene	ND		4.00	3.39		ug/L		85	70 - 130
Methyl tert-butyl ether	ND		4.00	3.50		ug/L		88	70 - 130
Methylene Chloride	ND		4.00	3.63		ug/L		91	70 - 130
m-Xylene & p-Xylene	ND		4.00	3.14		ug/L		78	70 - 130
Naphthalene	ND		4.00	3.25		ug/L		81	70 - 130
n-Butylbenzene	ND	F1	4.00	2.66	F1	ug/L		67	70 - 130
n-Propylbenzene	ND		4.00	3.01		ug/L		75	70 - 130
o-Xylene	ND		4.00	3.18		ug/L		80	70 - 130
sec-Butylbenzene	ND		4.00	3.22		ug/L		81	70 - 130
Styrene	ND		4.00	2.83		ug/L		71	70 - 130
tert-Butylbenzene	ND		4.00	3.42		ug/L		86	70 - 130
Tetrachloroethene	ND		4.00	3.87		ug/L		97	70 - 130
Toluene	ND		4.00	3.46		ug/L		87	70 - 130
trans-1,2-Dichloroethene	ND		4.00	3.40		ug/L		85	70 - 130
trans-1,3-Dichloropropene	ND		4.00	3.09		ug/L		77	70 - 130
Trichloroethene	ND		4.00	4.05		ug/L		101	70 - 130
Trichlorofluoromethane	ND		4.00	3.37		ug/L		84	70 - 130
Xylenes, Total	ND	*	8.00	6.32		ug/L		79	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*

Lab Sample ID: 480-126333-73 MSD
Matrix: Water
Analysis Batch: 384903

Client Sample ID: W-171019-MB-73
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND		4.00	4.05		ug/L		101	70 - 130	5	20
cis-1,2-Dichloroethene	ND		4.00	4.62		ug/L		116	70 - 130	4	20
Vinyl chloride	ND		4.00	4.03		ug/L		101	70 - 130	0	20
Analyte	**Sample Result**	**Sample Qualifier**	**Spike Added**	**MSD Result**	**MSD Qualifier**	**Unit**	**D**	**%Rec**	**%Rec. Limits**	**RPD**	**RPD Limit**
1,1,1,2-Tetrachloroethane	ND		4.00	3.99		ug/L		100	70 - 130	7	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-126333-73 MSD
Matrix: Water
Analysis Batch: 384903

Client Sample ID: W-171019-MB-73
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		4.00	4.07		ug/L		102	70 - 130	4	20
1,1,2,2-Tetrachloroethane	ND		4.00	3.33		ug/L		83	70 - 130	1	20
1,1,2-Trichloroethane	ND		4.00	3.65		ug/L		91	70 - 130	5	20
1,1-Dichloroethene	ND		4.00	3.44		ug/L		86	70 - 130	10	20
1,1-Dichloropropene	ND		4.00	3.89		ug/L		97	70 - 130	7	20
1,2,3-Trichlorobenzene	ND		4.00	3.57		ug/L		89	70 - 130	1	20
1,2,3-Trichloropropane	ND		4.00	3.64		ug/L		91	70 - 130	3	20
1,2,4-Trichlorobenzene	ND		4.00	3.51		ug/L		88	70 - 130	4	20
1,2,4-Trimethylbenzene	ND		4.00	3.19		ug/L		80	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	ND		4.00	3.31		ug/L		83	70 - 130	1	20
1,2-Dibromoethane	ND		4.00	3.75		ug/L		94	70 - 130	5	20
1,2-Dichlorobenzene	ND		4.00	3.99		ug/L		100	70 - 130	4	20
1,2-Dichloroethane	ND		4.00	3.78		ug/L		95	70 - 130	5	20
1,2-Dichloropropane	ND		4.00	3.83		ug/L		96	70 - 130	5	20
1,3,5-Trimethylbenzene	ND		4.00	3.12		ug/L		78	70 - 130	5	20
1,3-Dichlorobenzene	ND		4.00	3.90		ug/L		97	70 - 130	6	20
1,3-Dichloropropane	ND		4.00	3.53		ug/L		88	70 - 130	6	20
1,4-Dichlorobenzene	ND		4.00	3.94		ug/L		99	70 - 130	5	20
2,2-Dichloropropane	ND		4.00	3.59		ug/L		90	70 - 130	11	20
2-Butanone (MEK)	ND		20.0	19.2		ug/L		96	70 - 130	0	20
2-Chlorotoluene	ND		4.00	3.48		ug/L		87	70 - 130	8	20
2-Hexanone	ND		20.0	17.2		ug/L		86	70 - 130	2	20
4-Chlorotoluene	ND		4.00	3.33		ug/L		83	70 - 130	6	20
4-Isopropyltoluene	ND		4.00	3.34		ug/L		83	70 - 130	8	20
4-Methyl-2-pentanone (MIBK)	ND		20.0	17.2		ug/L		86	70 - 130	1	20
Acetone	ND		20.0	20.4		ug/L		102	70 - 130	1	20
Benzene	ND		4.00	3.96		ug/L		99	70 - 130	7	20
Bromobenzene	ND		4.00	3.83		ug/L		96	70 - 130	7	20
Bromochloromethane	ND		4.00	4.15		ug/L		104	70 - 130	1	20
Bromoform	ND		4.00	3.12		ug/L		78	70 - 130	6	20
Bromomethane	ND	F1	4.00	2.65	F1	ug/L		66	70 - 130	13	20
Carbon disulfide	ND		4.00	3.74		ug/L		94	70 - 130	9	20
Carbon tetrachloride	ND		4.00	3.80		ug/L		95	70 - 130	8	20
Chlorobenzene	ND		4.00	3.78		ug/L		95	70 - 130	5	20
Chlorodibromomethane	ND		4.00	3.42		ug/L		86	70 - 130	3	20
Chloroethane	ND	F1	4.00	1.94	F1	ug/L		49	70 - 130	13	20
Chloroform	ND		4.00	3.87		ug/L		97	70 - 130	5	20
Chloromethane	ND		4.00	3.38		ug/L		84	70 - 130	2	20
cis-1,3-Dichloropropene	ND		4.00	3.43		ug/L		86	70 - 130	2	20
Dibromomethane	ND		4.00	3.52		ug/L		88	70 - 130	2	20
Dichlorobromomethane	ND		4.00	3.38		ug/L		85	70 - 130	1	20
Dichlorodifluoromethane	ND		4.00	3.39		ug/L		85	70 - 130	4	20
Ethylbenzene	ND		4.00	3.47		ug/L		87	70 - 130	8	20
Hexachlorobutadiene	ND		4.00	3.02		ug/L		75	70 - 130	7	20
Isopropylbenzene	ND		4.00	3.72		ug/L		93	70 - 130	9	20
Methyl tert-butyl ether	ND		4.00	3.61		ug/L		90	70 - 130	3	20
Methylene Chloride	ND		4.00	3.84		ug/L		96	70 - 130	6	20
m-Xylene & p-Xylene	ND		4.00	3.26		ug/L		82	70 - 130	4	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-126333-73 MSD — **Client Sample ID: W-171019-MB-73**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		4.00	3.30		ug/L		82	70 - 130	2	20
n-Butylbenzene	ND	F1	4.00	2.98		ug/L		74	70 - 130	11	20
n-Propylbenzene	ND		4.00	3.26		ug/L		82	70 - 130	8	20
o-Xylene	ND		4.00	3.40		ug/L		85	70 - 130	6	20
sec-Butylbenzene	ND		4.00	3.50		ug/L		88	70 - 130	8	20
Styrene	ND		4.00	2.92		ug/L		73	70 - 130	3	20
tert-Butylbenzene	ND		4.00	3.62		ug/L		91	70 - 130	6	20
Tetrachloroethene	ND		4.00	4.11		ug/L		103	70 - 130	6	20
Toluene	ND		4.00	3.58		ug/L		90	70 - 130	3	20
trans-1,2-Dichloroethene	ND		4.00	3.76		ug/L		94	70 - 130	10	20
trans-1,3-Dichloropropene	ND		4.00	3.09		ug/L		77	70 - 130	0	20
Trichloroethene	ND		4.00	4.28		ug/L		107	70 - 130	5	20
Trichlorofluoromethane	ND		4.00	3.50		ug/L		87	70 - 130	4	20
Xylenes, Total	ND	*	8.00	6.66		ug/L		83	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-384475/28 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384475

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			10/31/17 13:53	1

Lab Sample ID: MB 480-384475/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384475

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			10/31/17 10:38	1

Lab Sample ID: LCS 480-384475/27 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384475

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			50.0	50.30		mg/L		101	90 - 110		

Lab Sample ID: LCS 480-384475/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384475

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			50.0	49.78		mg/L		100	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 480-126333-30 MS — **Client Sample ID: W-171017-MB-30**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384475

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	13.2		100	114.4		mg/L		101	81 - 120		

Lab Sample ID: 480-126333-30 MSD — **Client Sample ID: W-171017-MB-30**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384475

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	13.2		100	112.8		mg/L		100	81 - 120	1	20

Lab Sample ID: 480-126333-33 MS — **Client Sample ID: W-171018-MB-33**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384475

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	14.3		100	116.0		mg/L		102	81 - 120		

Lab Sample ID: 480-126333-47 MS — **Client Sample ID: W-171018-MB-47**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384475

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	36.5		100	134.2		mg/L		98	81 - 120		

Lab Sample ID: 480-126333-54 MS — **Client Sample ID: W-171018-MB-54**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384475

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	45.5		100	145.4		mg/L		100	81 - 120		

Lab Sample ID: 480-126333-54 MSD — **Client Sample ID: W-171018-MB-54**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384475

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	45.5		100	145.5		mg/L		100	81 - 120	0	20

Lab Sample ID: MB 480-384480/28 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384480

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			10/31/17 21:34	1

Lab Sample ID: MB 480-384480/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384480

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			10/31/17 18:18	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Lab Sample ID: LCS 480-384480/27 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.03		mg/L		100	90 - 110

Lab Sample ID: LCS 480-384480/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.85		mg/L		102	90 - 110

Lab Sample ID: 480-126333-62 MS — **Client Sample ID: W-171019-MB-62**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	29.7		100	130.9		mg/L		101	81 - 120

Lab Sample ID: 480-126333-68 MS — **Client Sample ID: W-171019-MB-68**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.8		100	105.6		mg/L		102	81 - 120

Lab Sample ID: 480-126333-68 MSD — **Client Sample ID: W-171019-MB-68**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384480

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.8		100	104.6		mg/L		101	81 - 120	1	20

Lab Sample ID: 480-126333-73 MS — **Client Sample ID: W-171019-MB-73**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	26.3		100	125.2		mg/L		99	81 - 120

Lab Sample ID: 480-126333-73 MSD — **Client Sample ID: W-171019-MB-73**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384480

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	26.3		100	126.3		mg/L		100	81 - 120	1	20

Lab Sample ID: MB 480-384994/28 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384994

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			11/02/17 07:25	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 480-384994/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384994

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			11/02/17 01:35	1

Lab Sample ID: LCS 480-384994/27 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.46		mg/L		101	90 - 110

Lab Sample ID: LCS 480-384994/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.85		mg/L		104	90 - 110

Lab Sample ID: 480-126333-8 MS — **Client Sample ID: W-171017-MB-08**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	23.6		100	123.5		mg/L		100	81 - 120

Lab Sample ID: 480-126333-8 MSD — **Client Sample ID: W-171017-MB-08**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384994

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	23.6		100	122.0		mg/L		98	81 - 120	1	20

Lab Sample ID: 480-126333-11 MS — **Client Sample ID: W-171017-MB-11**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.5		100	136.6		mg/L		111	81 - 120

Lab Sample ID: 480-126333-11 MSD — **Client Sample ID: W-171017-MB-11**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384994

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25.5		100	126.6		mg/L		101	81 - 120	8	20

Lab Sample ID: 480-126333-18 MS — **Client Sample ID: W-171017-MB-18**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.8		100	125.6		mg/L		100	81 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Lab Sample ID: MB 480-385035/4
Matrix: Water
Analysis Batch: 385035

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			11/01/17 15:15	1

Lab Sample ID: LCS 480-385035/3
Matrix: Water
Analysis Batch: 385035

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			50.0	51.18		mg/L		102	90 - 110		

QC Association Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

GC/MS VOA

Analysis Batch: 383924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-1	W-171016-MB-01	Total/NA	Water	524.2	
480-126333-2	W-171016-MB-02	Total/NA	Water	524.2	
480-126333-3	W-171016-MB-03	Total/NA	Water	524.2	
480-126333-4	W-171016-MB-04	Total/NA	Water	524.2	
480-126333-5	W-171017-MB-05	Total/NA	Water	524.2	
480-126333-6	W-171017-MB-06	Total/NA	Water	524.2	
480-126333-7	W-171017-MB-07	Total/NA	Water	524.2	
MB 480-383924/8	Method Blank	Total/NA	Water	524.2	
LCS 480-383924/5	Lab Control Sample	Total/NA	Water	524.2	
LCSD 480-383924/6	Lab Control Sample Dup	Total/NA	Water	524.2	
LLCS 480-383924/7	Lab Control Sample	Total/NA	Water	524.2	

Analysis Batch: 384183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-8	W-171017-MB-08	Total/NA	Water	524.2	
480-126333-9	W-171017-MB-09	Total/NA	Water	524.2	
480-126333-10	W-171017-MB-10	Total/NA	Water	524.2	
480-126333-11	W-171017-MB-11	Total/NA	Water	524.2	
480-126333-12	W-171017-MB-12	Total/NA	Water	524.2	
480-126333-13	W-171017-MB-13	Total/NA	Water	524.2	
480-126333-14	W-171017-MB-14	Total/NA	Water	524.2	
480-126333-15	W-171017-MB-15	Total/NA	Water	524.2	
480-126333-16	W-171017-MB-16	Total/NA	Water	524.2	
480-126333-17	W-171017-MB-17	Total/NA	Water	524.2	
480-126333-18	W-171017-MB-18	Total/NA	Water	524.2	
480-126333-19	W-171017-MB-19	Total/NA	Water	524.2	
480-126333-20	W-171017-MB-20	Total/NA	Water	524.2	
MB 480-384183/7	Method Blank	Total/NA	Water	524.2	
LCS 480-384183/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 480-384183/5	Lab Control Sample Dup	Total/NA	Water	524.2	
LLCS 480-384183/6	Lab Control Sample	Total/NA	Water	524.2	
480-126333-11 MS	W-171017-MB-11	Total/NA	Water	524.2	
480-126333-11 MSD	W-171017-MB-11	Total/NA	Water	524.2	

Analysis Batch: 384427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-21	W-171017-MB-21	Total/NA	Water	524.2	
480-126333-22	W-171017-MB-22	Total/NA	Water	524.2	
480-126333-23	W-171017-MB-23	Total/NA	Water	524.2	
480-126333-24	W-171017-MB-24	Total/NA	Water	524.2	
480-126333-25	W-171017-MB-25	Total/NA	Water	524.2	
480-126333-26	W-171017-MB-26	Total/NA	Water	524.2	
480-126333-27	W-171017-MB-27	Total/NA	Water	524.2	
480-126333-28	W-171017-MB-28	Total/NA	Water	524.2	
480-126333-29	W-171017-MB-29	Total/NA	Water	524.2	
480-126333-30	W-171017-MB-30	Total/NA	Water	524.2	
480-126333-31	W-171018-MB-31	Total/NA	Water	524.2	
480-126333-32	W-171018-MB-32	Total/NA	Water	524.2	
480-126333-33	W-171018-MB-33	Total/NA	Water	524.2	
480-126333-34	W-171018-MB-34	Total/NA	Water	524.2	
480-126333-35	W-171018-MB-35	Total/NA	Water	524.2	

GC/MS VOA (Continued)

Analysis Batch: 384427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-36	W-171018-MB-36	Total/NA	Water	524.2	
MB 480-384427/7	Method Blank	Total/NA	Water	524.2	
LCS 480-384427/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 480-384427/5	Lab Control Sample Dup	Total/NA	Water	524.2	
LLCS 480-384427/6	Lab Control Sample	Total/NA	Water	524.2	

Analysis Batch: 384565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-37	W-171018-MB-37	Total/NA	Water	524.2	
480-126333-38	W-171018-MB-38	Total/NA	Water	524.2	
480-126333-39	W-171018-MB-39	Total/NA	Water	524.2	
480-126333-40	W-171018-MB-40	Total/NA	Water	524.2	
480-126333-41	W-171018-MB-41	Total/NA	Water	524.2	
480-126333-42	W-171018-MB-42	Total/NA	Water	524.2	
480-126333-43	W-171018-MB-43	Total/NA	Water	524.2	
MB 480-384565/7	Method Blank	Total/NA	Water	524.2	
LCS 480-384565/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 480-384565/5	Lab Control Sample Dup	Total/NA	Water	524.2	
LLCS 480-384565/6	Lab Control Sample	Total/NA	Water	524.2	
480-126333-30 MS	W-171017-MB-30	Total/NA	Water	524.2	
480-126333-30 MSD	W-171017-MB-30	Total/NA	Water	524.2	

Analysis Batch: 384694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-44	W-171018-MB-44	Total/NA	Water	524.2	
480-126333-45	W-171018-MB-45	Total/NA	Water	524.2	
480-126333-46	W-171018-MB-46	Total/NA	Water	524.2	
480-126333-47	W-171018-MB-47	Total/NA	Water	524.2	
480-126333-48	W-171018-MB-48	Total/NA	Water	524.2	
480-126333-49	W-171018-MB-49	Total/NA	Water	524.2	
480-126333-50	W-171018-MB-50	Total/NA	Water	524.2	
480-126333-51	W-171018-MB-51	Total/NA	Water	524.2	
480-126333-52	W-171018-MB-52	Total/NA	Water	524.2	
480-126333-53	W-171018-MB-53	Total/NA	Water	524.2	
480-126333-54	W-171018-MB-54	Total/NA	Water	524.2	
480-126333-55	W-171018-MB-55	Total/NA	Water	524.2	
480-126333-56	W-171018-MB-56	Total/NA	Water	524.2	
480-126333-57	W-171018-MB-57	Total/NA	Water	524.2	
MB 480-384694/7	Method Blank	Total/NA	Water	524.2	
LCS 480-384694/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 480-384694/5	Lab Control Sample Dup	Total/NA	Water	524.2	
LLCS 480-384694/6	Lab Control Sample	Total/NA	Water	524.2	
480-126333-54 MS	W-171018-MB-54	Total/NA	Water	524.2	
480-126333-54 MSD	W-171018-MB-54	Total/NA	Water	524.2	

Analysis Batch: 384754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-58	W-171019-MB-58	Total/NA	Water	524.2	
480-126333-59	W-171019-MB-59	Total/NA	Water	524.2	
480-126333-60	W-171019-MB-60	Total/NA	Water	524.2	
480-126333-61	W-171019-MB-61	Total/NA	Water	524.2	

GC/MS VOA (Continued)

Analysis Batch: 384754 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-62	W-171019-MB-62	Total/NA	Water	524.2	
480-126333-63	W-171019-MB-63	Total/NA	Water	524.2	
480-126333-64	W-171019-MB-64	Total/NA	Water	524.2	
480-126333-65	W-171019-MB-65	Total/NA	Water	524.2	
MB 480-384754/7	Method Blank	Total/NA	Water	524.2	
LCS 480-384754/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 480-384754/5	Lab Control Sample Dup	Total/NA	Water	524.2	
LLCS 480-384754/6	Lab Control Sample	Total/NA	Water	524.2	

Analysis Batch: 384903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-66	W-171019-MB-66	Total/NA	Water	524.2	
480-126333-67	W-171019-MB-67	Total/NA	Water	524.2	
480-126333-68	W-171019-MB-68	Total/NA	Water	524.2	
480-126333-69	W-171019-MB-69	Total/NA	Water	524.2	
480-126333-70	W-171019-MB-70	Total/NA	Water	524.2	
480-126333-71	W-171019-MB-71	Total/NA	Water	524.2	
480-126333-72	W-171019-MB-72	Total/NA	Water	524.2	
480-126333-73	W-171019-MB-73	Total/NA	Water	524.2	
480-126333-74	W-171019-MB-74	Total/NA	Water	524.2	
480-126333-75	W-171019-MB-75	Total/NA	Water	524.2	
480-126333-76	W-171019-MB-76	Total/NA	Water	524.2	
480-126333-77	W-171019-MB-77	Total/NA	Water	524.2	
480-126333-78	TRIP BLANK	Total/NA	Water	524.2	
MB 480-384903/7	Method Blank	Total/NA	Water	524.2	
LCS 480-384903/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 480-384903/5	Lab Control Sample Dup	Total/NA	Water	524.2	
LLCS 480-384903/6	Lab Control Sample	Total/NA	Water	524.2	
480-126333-73 MS	W-171019-MB-73	Total/NA	Water	524.2	
480-126333-73 MSD	W-171019-MB-73	Total/NA	Water	524.2	

General Chemistry

Analysis Batch: 384475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-23	W-171017-MB-23	Total/NA	Water	300.0	
480-126333-24	W-171017-MB-24	Total/NA	Water	300.0	
480-126333-25	W-171017-MB-25	Total/NA	Water	300.0	
480-126333-26	W-171017-MB-26	Total/NA	Water	300.0	
480-126333-27	W-171017-MB-27	Total/NA	Water	300.0	
480-126333-28	W-171017-MB-28	Total/NA	Water	300.0	
480-126333-29	W-171017-MB-29	Total/NA	Water	300.0	
480-126333-30	W-171017-MB-30	Total/NA	Water	300.0	
480-126333-31	W-171018-MB-31	Total/NA	Water	300.0	
480-126333-32	W-171018-MB-32	Total/NA	Water	300.0	
480-126333-33	W-171018-MB-33	Total/NA	Water	300.0	
480-126333-34	W-171018-MB-34	Total/NA	Water	300.0	
480-126333-35	W-171018-MB-35	Total/NA	Water	300.0	
480-126333-36	W-171018-MB-36	Total/NA	Water	300.0	
480-126333-37	W-171018-MB-37	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 384475 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-38	W-171018-MB-38	Total/NA	Water	300.0	
480-126333-39	W-171018-MB-39	Total/NA	Water	300.0	
480-126333-40	W-171018-MB-40	Total/NA	Water	300.0	
480-126333-41	W-171018-MB-41	Total/NA	Water	300.0	
480-126333-42	W-171018-MB-42	Total/NA	Water	300.0	
480-126333-43	W-171018-MB-43	Total/NA	Water	300.0	
480-126333-44	W-171018-MB-44	Total/NA	Water	300.0	
480-126333-45	W-171018-MB-45	Total/NA	Water	300.0	
480-126333-46	W-171018-MB-46	Total/NA	Water	300.0	
480-126333-47	W-171018-MB-47	Total/NA	Water	300.0	
480-126333-54	W-171018-MB-54	Total/NA	Water	300.0	
MB 480-384475/28	Method Blank	Total/NA	Water	300.0	
MB 480-384475/4	Method Blank	Total/NA	Water	300.0	
LCS 480-384475/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-384475/3	Lab Control Sample	Total/NA	Water	300.0	
480-126333-30 MS	W-171017-MB-30	Total/NA	Water	300.0	
480-126333-30 MSD	W-171017-MB-30	Total/NA	Water	300.0	
480-126333-33 MS	W-171018-MB-33	Total/NA	Water	300.0	
480-126333-47 MS	W-171018-MB-47	Total/NA	Water	300.0	
480-126333-54 MS	W-171018-MB-54	Total/NA	Water	300.0	
480-126333-54 MSD	W-171018-MB-54	Total/NA	Water	300.0	

Analysis Batch: 384480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-48	W-171018-MB-48	Total/NA	Water	300.0	
480-126333-49	W-171018-MB-49	Total/NA	Water	300.0	
480-126333-50	W-171018-MB-50	Total/NA	Water	300.0	
480-126333-51	W-171018-MB-51	Total/NA	Water	300.0	
480-126333-52	W-171018-MB-52	Total/NA	Water	300.0	
480-126333-53	W-171018-MB-53	Total/NA	Water	300.0	
480-126333-55	W-171018-MB-55	Total/NA	Water	300.0	
480-126333-56	W-171018-MB-56	Total/NA	Water	300.0	
480-126333-57	W-171018-MB-57	Total/NA	Water	300.0	
480-126333-58	W-171019-MB-58	Total/NA	Water	300.0	
480-126333-59	W-171019-MB-59	Total/NA	Water	300.0	
480-126333-60	W-171019-MB-60	Total/NA	Water	300.0	
480-126333-61	W-171019-MB-61	Total/NA	Water	300.0	
480-126333-62	W-171019-MB-62	Total/NA	Water	300.0	
480-126333-63	W-171019-MB-63	Total/NA	Water	300.0	
480-126333-64	W-171019-MB-64	Total/NA	Water	300.0	
480-126333-65	W-171019-MB-65	Total/NA	Water	300.0	
480-126333-66	W-171019-MB-66	Total/NA	Water	300.0	
480-126333-67	W-171019-MB-67	Total/NA	Water	300.0	
480-126333-68	W-171019-MB-68	Total/NA	Water	300.0	
480-126333-69	W-171019-MB-69	Total/NA	Water	300.0	
480-126333-70	W-171019-MB-70	Total/NA	Water	300.0	
480-126333-71	W-171019-MB-71	Total/NA	Water	300.0	
480-126333-72	W-171019-MB-72	Total/NA	Water	300.0	
480-126333-73	W-171019-MB-73	Total/NA	Water	300.0	
480-126333-74	W-171019-MB-74	Total/NA	Water	300.0	
480-126333-75	W-171019-MB-75	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 384480 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-76	W-171019-MB-76	Total/NA	Water	300.0	
480-126333-77	W-171019-MB-77	Total/NA	Water	300.0	
MB 480-384480/28	Method Blank	Total/NA	Water	300.0	
MB 480-384480/4	Method Blank	Total/NA	Water	300.0	
LCS 480-384480/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-384480/3	Lab Control Sample	Total/NA	Water	300.0	
480-126333-62 MS	W-171019-MB-62	Total/NA	Water	300.0	
480-126333-68 MS	W-171019-MB-68	Total/NA	Water	300.0	
480-126333-68 MSD	W-171019-MB-68	Total/NA	Water	300.0	
480-126333-73 MS	W-171019-MB-73	Total/NA	Water	300.0	
480-126333-73 MSD	W-171019-MB-73	Total/NA	Water	300.0	

Analysis Batch: 384994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-1	W-171016-MB-01	Total/NA	Water	300.0	
480-126333-2	W-171016-MB-02	Total/NA	Water	300.0	
480-126333-3	W-171016-MB-03	Total/NA	Water	300.0	
480-126333-4	W-171016-MB-04	Total/NA	Water	300.0	
480-126333-5	W-171017-MB-05	Total/NA	Water	300.0	
480-126333-6	W-171017-MB-06	Total/NA	Water	300.0	
480-126333-7	W-171017-MB-07	Total/NA	Water	300.0	
480-126333-8	W-171017-MB-08	Total/NA	Water	300.0	
480-126333-9	W-171017-MB-09	Total/NA	Water	300.0	
480-126333-10	W-171017-MB-10	Total/NA	Water	300.0	
480-126333-11	W-171017-MB-11	Total/NA	Water	300.0	
480-126333-12	W-171017-MB-12	Total/NA	Water	300.0	
480-126333-13	W-171017-MB-13	Total/NA	Water	300.0	
480-126333-14	W-171017-MB-14	Total/NA	Water	300.0	
480-126333-15	W-171017-MB-15	Total/NA	Water	300.0	
480-126333-16	W-171017-MB-16	Total/NA	Water	300.0	
480-126333-17	W-171017-MB-17	Total/NA	Water	300.0	
480-126333-18	W-171017-MB-18	Total/NA	Water	300.0	
MB 480-384994/28	Method Blank	Total/NA	Water	300.0	
MB 480-384994/4	Method Blank	Total/NA	Water	300.0	
LCS 480-384994/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-384994/3	Lab Control Sample	Total/NA	Water	300.0	
480-126333-8 MS	W-171017-MB-08	Total/NA	Water	300.0	
480-126333-8 MSD	W-171017-MB-08	Total/NA	Water	300.0	
480-126333-11 MS	W-171017-MB-11	Total/NA	Water	300.0	
480-126333-11 MSD	W-171017-MB-11	Total/NA	Water	300.0	
480-126333-18 MS	W-171017-MB-18	Total/NA	Water	300.0	

Analysis Batch: 385035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126333-19	W-171017-MB-19	Total/NA	Water	300.0	
480-126333-20	W-171017-MB-20	Total/NA	Water	300.0	
480-126333-21	W-171017-MB-21	Total/NA	Water	300.0	
480-126333-22	W-171017-MB-22	Total/NA	Water	300.0	
MB 480-385035/4	Method Blank	Total/NA	Water	300.0	
LCS 480-385035/3	Lab Control Sample	Total/NA	Water	300.0	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171016-MB-01 — Lab Sample ID: 480-126333-1

Date Collected: 10/16/17 14:30 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	383924	10/26/17 19:51	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384994	11/02/17 01:49	RJS	TAL BUF

Client Sample ID: W-171016-MB-02 — Lab Sample ID: 480-126333-2

Date Collected: 10/16/17 15:00 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	383924	10/26/17 20:21	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384994	11/02/17 02:04	RJS	TAL BUF

Client Sample ID: W-171016-MB-03 — Lab Sample ID: 480-126333-3

Date Collected: 10/16/17 15:25 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	383924	10/26/17 20:51	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384994	11/02/17 02:18	RJS	TAL BUF

Client Sample ID: W-171016-MB-04 — Lab Sample ID: 480-126333-4

Date Collected: 10/16/17 15:52 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	383924	10/26/17 21:22	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384994	11/02/17 02:33	RJS	TAL BUF

Client Sample ID: W-171017-MB-05 — Lab Sample ID: 480-126333-5

Date Collected: 10/17/17 09:54 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	383924	10/26/17 21:52	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384994	11/02/17 02:47	RJS	TAL BUF

Client Sample ID: W-171017-MB-06 — Lab Sample ID: 480-126333-6

Date Collected: 10/17/17 09:55 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	383924	10/26/17 22:22	HDK	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-06 — Lab Sample ID: 480-126333-6

Date Collected: 10/17/17 09:55 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	384994	11/02/17 08:23	RJS	TAL BUF

Client Sample ID: W-171017-MB-07 — Lab Sample ID: 480-126333-7

Date Collected: 10/17/17 10:00 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	383924	10/26/17 22:52	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384994	11/02/17 08:37	RJS	TAL BUF

Client Sample ID: W-171017-MB-08 — Lab Sample ID: 480-126333-8

Date Collected: 10/17/17 10:06 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384183	10/27/17 16:00	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384994	11/02/17 08:52	RJS	TAL BUF

Client Sample ID: W-171017-MB-09 — Lab Sample ID: 480-126333-9

Date Collected: 10/17/17 10:08 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384183	10/27/17 16:29	HDK	TAL BUF
Total/NA	Analysis	300.0		1	384994	11/02/17 10:05	RJS	TAL BUF

Client Sample ID: W-171017-MB-10 — Lab Sample ID: 480-126333-10

Date Collected: 10/17/17 10:36 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384183	10/27/17 16:58	HDK	TAL BUF
Total/NA	Analysis	300.0		1	384994	11/02/17 10:20	RJS	TAL BUF

Client Sample ID: W-171017-MB-11 — Lab Sample ID: 480-126333-11

Date Collected: 10/17/17 10:40 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384183	10/27/17 17:28	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384994	11/02/17 03:02	RJS	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-12 — Lab Sample ID: 480-126333-12

Date Collected: 10/17/17 11:15
Date Received: 10/23/17 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384183	10/27/17 17:58	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384994	11/02/17 10:34	RJS	TAL BUF

Client Sample ID: W-171017-MB-13 — Lab Sample ID: 480-126333-13

Date Collected: 10/17/17 11:20
Date Received: 10/23/17 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384183	10/27/17 18:27	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384994	11/02/17 10:49	RJS	TAL BUF

Client Sample ID: W-171017-MB-14 — Lab Sample ID: 480-126333-14

Date Collected: 10/17/17 11:21
Date Received: 10/23/17 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384183	10/27/17 18:57	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384994	11/02/17 11:03	RJS	TAL BUF

Client Sample ID: W-171017-MB-15 — Lab Sample ID: 480-126333-15

Date Collected: 10/17/17 11:25
Date Received: 10/23/17 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384183	10/27/17 19:27	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384994	11/02/17 11:18	RJS	TAL BUF

Client Sample ID: W-171017-MB-16 — Lab Sample ID: 480-126333-16

Date Collected: 10/17/17 11:27
Date Received: 10/23/17 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384183	10/27/17 19:57	HDK	TAL BUF
Total/NA	Analysis	300.0		1	384994	11/02/17 11:32	RJS	TAL BUF

Client Sample ID: W-171017-MB-17 — Lab Sample ID: 480-126333-17

Date Collected: 10/17/17 12:18
Date Received: 10/23/17 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384183	10/27/17 20:27	HDK	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-17 — Lab Sample ID: 480-126333-17

Date Collected: 10/17/17 12:18 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	384994	11/02/17 11:47	RJS	TAL BUF

Client Sample ID: W-171017-MB-18 — Lab Sample ID: 480-126333-18

Date Collected: 10/17/17 12:23 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384183	10/27/17 20:56	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384994	11/02/17 12:02	RJS	TAL BUF

Client Sample ID: W-171017-MB-19 — Lab Sample ID: 480-126333-19

Date Collected: 10/17/17 12:31 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384183	10/27/17 21:26	HDK	TAL BUF
Total/NA	Analysis	300.0		2	385035	11/01/17 15:31	RJS	TAL BUF

Client Sample ID: W-171017-MB-20 — Lab Sample ID: 480-126333-20

Date Collected: 10/17/17 12:57 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384183	10/27/17 21:56	HDK	TAL BUF
Total/NA	Analysis	300.0		2	385035	11/01/17 15:39	RJS	TAL BUF

Client Sample ID: W-171017-MB-21 — Lab Sample ID: 480-126333-21

Date Collected: 10/17/17 13:04 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/28/17 22:26	CDC	TAL BUF
Total/NA	Analysis	300.0		2	385035	11/01/17 15:48	RJS	TAL BUF

Client Sample ID: W-171017-MB-22 — Lab Sample ID: 480-126333-22

Date Collected: 10/17/17 13:09 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/28/17 22:56	CDC	TAL BUF
Total/NA	Analysis	300.0		2	385035	11/01/17 15:56	RJS	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-23 — Lab Sample ID: 480-126333-23

Date Collected: 10/17/17 13:47 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/28/17 23:25	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 11:18	DMR	TAL BUF

Client Sample ID: W-171017-MB-24 — Lab Sample ID: 480-126333-24

Date Collected: 10/17/17 13:51 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/28/17 23:55	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 12:07	DMR	TAL BUF

Client Sample ID: W-171017-MB-25 — Lab Sample ID: 480-126333-25

Date Collected: 10/17/17 13:58 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/29/17 00:24	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 12:15	DMR	TAL BUF

Client Sample ID: W-171017-MB-26 — Lab Sample ID: 480-126333-26

Date Collected: 10/17/17 14:00 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/29/17 00:53	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 12:23	DMR	TAL BUF

Client Sample ID: W-171017-MB-27 — Lab Sample ID: 480-126333-27

Date Collected: 10/17/17 14:32 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/29/17 01:23	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 12:32	DMR	TAL BUF

Client Sample ID: W-171017-MB-28 — Lab Sample ID: 480-126333-28

Date Collected: 10/17/17 14:39 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/29/17 01:52	CDC	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171017-MB-28 — Lab Sample ID: 480-126333-28

Date Collected: 10/17/17 14:39 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	384475	10/31/17 12:40	DMR	TAL BUF

Client Sample ID: W-171017-MB-29 — Lab Sample ID: 480-126333-29

Date Collected: 10/17/17 14:41 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/29/17 02:22	CDC	TAL BUF
Total/NA	Analysis	300.0		1	384475	10/31/17 12:48	DMR	TAL BUF

Client Sample ID: W-171017-MB-30 — Lab Sample ID: 480-126333-30

Date Collected: 10/17/17 14:47 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/29/17 02:51	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 11:26	DMR	TAL BUF

Client Sample ID: W-171018-MB-31 — Lab Sample ID: 480-126333-31

Date Collected: 10/18/17 08:59 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/29/17 03:21	CDC	TAL BUF
Total/NA	Analysis	300.0		1	384475	10/31/17 12:56	DMR	TAL BUF

Client Sample ID: W-171018-MB-32 — Lab Sample ID: 480-126333-32

Date Collected: 10/18/17 09:03 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/29/17 03:50	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 13:04	DMR	TAL BUF

Client Sample ID: W-171018-MB-33 — Lab Sample ID: 480-126333-33

Date Collected: 10/18/17 09:35 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/29/17 04:20	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 13:12	DMR	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-34 — Lab Sample ID: 480-126333-34

Date Collected: 10/18/17 09:40 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/29/17 04:50	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 14:01	DMR	TAL BUF

Client Sample ID: W-171018-MB-35 — Lab Sample ID: 480-126333-35

Date Collected: 10/18/17 09:44 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/29/17 05:19	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 14:09	DMR	TAL BUF

Client Sample ID: W-171018-MB-36 — Lab Sample ID: 480-126333-36

Date Collected: 10/18/17 10:14 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384427	10/29/17 05:48	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 14:17	DMR	TAL BUF

Client Sample ID: W-171018-MB-37 — Lab Sample ID: 480-126333-37

Date Collected: 10/18/17 10:15 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384565	10/30/17 14:19	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 15:19	DMR	TAL BUF

Client Sample ID: W-171018-MB-38 — Lab Sample ID: 480-126333-38

Date Collected: 10/18/17 10:20 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384565	10/30/17 14:49	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 15:28	DMR	TAL BUF

Client Sample ID: W-171018-MB-39 — Lab Sample ID: 480-126333-39

Date Collected: 10/18/17 10:22 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384565	10/30/17 15:18	HDK	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-39 — Lab Sample ID: 480-126333-39

Date Collected: 10/18/17 10:22 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	384475	10/31/17 16:16	DMR	TAL BUF

Client Sample ID: W-171018-MB-40 — Lab Sample ID: 480-126333-40

Date Collected: 10/18/17 10:25 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384565	10/30/17 15:48	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 16:25	DMR	TAL BUF

Client Sample ID: W-171018-MB-41 — Lab Sample ID: 480-126333-41

Date Collected: 10/18/17 10:56 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384565	10/30/17 16:17	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 16:33	DMR	TAL BUF

Client Sample ID: W-171018-MB-42 — Lab Sample ID: 480-126333-42

Date Collected: 10/18/17 11:02 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384565	10/30/17 16:47	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 16:41	DMR	TAL BUF

Client Sample ID: W-171018-MB-43 — Lab Sample ID: 480-126333-43

Date Collected: 10/18/17 11:06 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384565	10/30/17 17:17	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 16:49	DMR	TAL BUF

Client Sample ID: W-171018-MB-44 — Lab Sample ID: 480-126333-44

Date Collected: 10/18/17 11:30 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 00:02	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 16:57	DMR	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-45 — Lab Sample ID: 480-126333-45

Date Collected: 10/18/17 11:36 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 00:32	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 17:05	DMR	TAL BUF

Client Sample ID: W-171018-MB-46 — Lab Sample ID: 480-126333-46

Date Collected: 10/18/17 11:41 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 01:02	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 17:13	DMR	TAL BUF

Client Sample ID: W-171018-MB-47 — Lab Sample ID: 480-126333-47

Date Collected: 10/18/17 12:45 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 01:32	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 17:22	DMR	TAL BUF

Client Sample ID: W-171018-MB-48 — Lab Sample ID: 480-126333-48

Date Collected: 10/18/17 12:50 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 02:01	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 18:27	CLA	TAL BUF

Client Sample ID: W-171018-MB-49 — Lab Sample ID: 480-126333-49

Date Collected: 10/18/17 12:55 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 02:32	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 18:35	CLA	TAL BUF

Client Sample ID: W-171018-MB-50 — Lab Sample ID: 480-126333-50

Date Collected: 10/18/17 12:56 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 03:02	CDC	TAL BUF

Client Sample ID: W-171018-MB-50 — Lab Sample ID: 480-126333-50

Date Collected: 10/18/17 12:56 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	384480	10/31/17 18:43	CLA	TAL BUF

Client Sample ID: W-171018-MB-51 — Lab Sample ID: 480-126333-51

Date Collected: 10/18/17 13:20 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 03:32	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 18:51	CLA	TAL BUF

Client Sample ID: W-171018-MB-52 — Lab Sample ID: 480-126333-52

Date Collected: 10/18/17 13:22 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 04:01	CDC	TAL BUF
Total/NA	Analysis	300.0		1	384480	10/31/17 18:59	CLA	TAL BUF

Client Sample ID: W-171018-MB-53 — Lab Sample ID: 480-126333-53

Date Collected: 10/18/17 13:27 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 04:31	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 19:48	CLA	TAL BUF

Client Sample ID: W-171018-MB-54 — Lab Sample ID: 480-126333-54

Date Collected: 10/18/17 13:31 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 05:01	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384475	10/31/17 15:36	DMR	TAL BUF

Client Sample ID: W-171018-MB-55 — Lab Sample ID: 480-126333-55

Date Collected: 10/18/17 14:12 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 05:30	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 19:56	CLA	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171018-MB-56 — Lab Sample ID: 480-126333-56

Date Collected: 10/18/17 14:19 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 06:00	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 20:04	CLA	TAL BUF

Client Sample ID: W-171018-MB-57 — Lab Sample ID: 480-126333-57

Date Collected: 10/18/17 14:22 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384694	10/31/17 06:29	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 20:12	CLA	TAL BUF

Client Sample ID: W-171019-MB-58 — Lab Sample ID: 480-126333-58

Date Collected: 10/19/17 08:04 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384754	10/31/17 16:29	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 20:21	CLA	TAL BUF

Client Sample ID: W-171019-MB-59 — Lab Sample ID: 480-126333-59

Date Collected: 10/19/17 08:40 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384754	10/31/17 16:58	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 20:29	CLA	TAL BUF

Client Sample ID: W-171019-MB-60 — Lab Sample ID: 480-126333-60

Date Collected: 10/19/17 08:45 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384754	10/31/17 17:28	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 20:37	CLA	TAL BUF

Client Sample ID: W-171019-MB-61 — Lab Sample ID: 480-126333-61

Date Collected: 10/19/17 08:49 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384754	10/31/17 17:58	HDK	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-61 — Lab Sample ID: 480-126333-61

Date Collected: 10/19/17 08:49 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	384480	10/31/17 20:45	CLA	TAL BUF

Client Sample ID: W-171019-MB-62 — Lab Sample ID: 480-126333-62

Date Collected: 10/19/17 08:50 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384754	10/31/17 18:27	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 20:53	CLA	TAL BUF

Client Sample ID: W-171019-MB-63 — Lab Sample ID: 480-126333-63

Date Collected: 10/19/17 09:20 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384754	10/31/17 18:56	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 21:42	CLA	TAL BUF

Client Sample ID: W-171019-MB-64 — Lab Sample ID: 480-126333-64

Date Collected: 10/19/17 09:22 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384754	10/31/17 19:26	HDK	TAL BUF
Total/NA	Analysis	300.0		1	384480	10/31/17 21:50	CLA	TAL BUF

Client Sample ID: W-171019-MB-65 — Lab Sample ID: 480-126333-65

Date Collected: 10/19/17 09:45 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384754	10/31/17 19:56	HDK	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 21:58	CLA	TAL BUF

Client Sample ID: W-171019-MB-66 — Lab Sample ID: 480-126333-66

Date Collected: 10/19/17 09:55 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384903	11/01/17 02:55	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 22:06	CLA	TAL BUF

Client Sample ID: W-171019-MB-67 — Lab Sample ID: 480-126333-67

Date Collected: 10/19/17 10:00 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384903	11/01/17 03:25	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 22:15	CLA	TAL BUF

Client Sample ID: W-171019-MB-68 — Lab Sample ID: 480-126333-68

Date Collected: 10/19/17 10:28 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384903	11/01/17 03:55	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 22:23	CLA	TAL BUF

Client Sample ID: W-171019-MB-69 — Lab Sample ID: 480-126333-69

Date Collected: 10/19/17 10:35 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384903	11/01/17 04:25	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 23:03	CLA	TAL BUF

Client Sample ID: W-171019-MB-70 — Lab Sample ID: 480-126333-70

Date Collected: 10/19/17 12:04 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384903	11/01/17 04:55	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 23:12	CLA	TAL BUF

Client Sample ID: W-171019-MB-71 — Lab Sample ID: 480-126333-71

Date Collected: 10/19/17 12:40 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384903	11/01/17 05:25	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 23:20	CLA	TAL BUF

Client Sample ID: W-171019-MB-72 — Lab Sample ID: 480-126333-72

Date Collected: 10/19/17 12:45 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384903	11/01/17 05:55	CDC	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: W-171019-MB-72 — Lab Sample ID: 480-126333-72

Date Collected: 10/19/17 12:45 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	384480	10/31/17 23:28	CLA	TAL BUF

Client Sample ID: W-171019-MB-73 — Lab Sample ID: 480-126333-73

Date Collected: 10/19/17 13:05 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384903	11/01/17 06:24	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 19:07	CLA	TAL BUF

Client Sample ID: W-171019-MB-74 — Lab Sample ID: 480-126333-74

Date Collected: 10/19/17 13:06 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384903	11/01/17 06:54	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 23:36	CLA	TAL BUF

Client Sample ID: W-171019-MB-75 — Lab Sample ID: 480-126333-75

Date Collected: 10/19/17 13:30 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384903	11/01/17 07:24	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 23:44	CLA	TAL BUF

Client Sample ID: W-171019-MB-76 — Lab Sample ID: 480-126333-76

Date Collected: 10/19/17 13:35 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384903	11/01/17 07:54	CDC	TAL BUF
Total/NA	Analysis	300.0		2	384480	10/31/17 23:52	CLA	TAL BUF

Client Sample ID: W-171019-MB-77 — Lab Sample ID: 480-126333-77

Date Collected: 10/19/17 13:37 — **Matrix: Water**
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384903	11/01/17 08:24	CDC	TAL BUF
Total/NA	Analysis	300.0		1	384480	11/01/17 00:00	CLA	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-126333-78

Date Collected: 10/19/17 00:00
Matrix: Water
Date Received: 10/23/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384903	11/01/17 08:53	CDC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Minnesota	NELAP	5	036-999-337	12-31-17

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
524.2		Water	Dibromomethane
524.2		Water	Naphthalene

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
524.2		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
524.2		Water	1,2-Dibromo-3-Chloropropane
524.2		Water	1,2-Dibromoethane
524.2		Water	1,3-Dichloropropane
524.2		Water	2-Butanone (MEK)
524.2		Water	2-Hexanone
524.2		Water	4-Isopropyltoluene
524.2		Water	4-Methyl-2-pentanone (MIBK)
524.2		Water	Acetone
524.2		Water	Acrylonitrile
524.2		Water	Allyl chloride
524.2		Water	Carbon disulfide
524.2		Water	Dichlorofluoromethane
524.2		Water	Ethyl ether
524.2		Water	Iodomethane
524.2		Water	m-Xylene & p-Xylene
524.2		Water	o-Xylene
524.2		Water	t-Butanol
524.2		Water	trans-1,4-Dichloro-2-butene
524.2		Water	Vinyl acetate

Method Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-126333-1	W-171016-MB-01	Water	10/16/17 14:30	10/23/17 09:30
480-126333-2	W-171016-MB-02	Water	10/16/17 15:00	10/23/17 09:30
480-126333-3	W-171016-MB-03	Water	10/16/17 15:25	10/23/17 09:30
480-126333-4	W-171016-MB-04	Water	10/16/17 15:52	10/23/17 09:30
480-126333-5	W-171017-MB-05	Water	10/17/17 09:54	10/23/17 09:30
480-126333-6	W-171017-MB-06	Water	10/17/17 09:55	10/23/17 09:30
480-126333-7	W-171017-MB-07	Water	10/17/17 10:00	10/23/17 09:30
480-126333-8	W-171017-MB-08	Water	10/17/17 10:06	10/23/17 09:30
480-126333-9	W-171017-MB-09	Water	10/17/17 10:08	10/23/17 09:30
480-126333-10	W-171017-MB-10	Water	10/17/17 10:36	10/23/17 09:30
480-126333-11	W-171017-MB-11	Water	10/17/17 10:40	10/23/17 09:30
480-126333-12	W-171017-MB-12	Water	10/17/17 11:15	10/23/17 09:30
480-126333-13	W-171017-MB-13	Water	10/17/17 11:20	10/23/17 09:30
480-126333-14	W-171017-MB-14	Water	10/17/17 11:21	10/23/17 09:30
480-126333-15	W-171017-MB-15	Water	10/17/17 11:25	10/23/17 09:30
480-126333-16	W-171017-MB-16	Water	10/17/17 11:27	10/23/17 09:30
480-126333-17	W-171017-MB-17	Water	10/17/17 12:18	10/23/17 09:30
480-126333-18	W-171017-MB-18	Water	10/17/17 12:23	10/23/17 09:30
480-126333-19	W-171017-MB-19	Water	10/17/17 12:31	10/23/17 09:30
480-126333-20	W-171017-MB-20	Water	10/17/17 12:57	10/23/17 09:30
480-126333-21	W-171017-MB-21	Water	10/17/17 13:04	10/23/17 09:30
480-126333-22	W-171017-MB-22	Water	10/17/17 13:09	10/23/17 09:30
480-126333-23	W-171017-MB-23	Water	10/17/17 13:47	10/23/17 09:30
480-126333-24	W-171017-MB-24	Water	10/17/17 13:51	10/23/17 09:30
480-126333-25	W-171017-MB-25	Water	10/17/17 13:58	10/23/17 09:30
480-126333-26	W-171017-MB-26	Water	10/17/17 14:00	10/23/17 09:30
480-126333-27	W-171017-MB-27	Water	10/17/17 14:32	10/23/17 09:30
480-126333-28	W-171017-MB-28	Water	10/17/17 14:39	10/23/17 09:30
480-126333-29	W-171017-MB-29	Water	10/17/17 14:41	10/23/17 09:30
480-126333-30	W-171017-MB-30	Water	10/17/17 14:47	10/23/17 09:30
480-126333-31	W-171018-MB-31	Water	10/18/17 08:59	10/23/17 09:30
480-126333-32	W-171018-MB-32	Water	10/18/17 09:03	10/23/17 09:30
480-126333-33	W-171018-MB-33	Water	10/18/17 09:35	10/23/17 09:30
480-126333-34	W-171018-MB-34	Water	10/18/17 09:40	10/23/17 09:30
480-126333-35	W-171018-MB-35	Water	10/18/17 09:44	10/23/17 09:30
480-126333-36	W-171018-MB-36	Water	10/18/17 10:14	10/23/17 09:30
480-126333-37	W-171018-MB-37	Water	10/18/17 10:15	10/23/17 09:30
480-126333-38	W-171018-MB-38	Water	10/18/17 10:20	10/23/17 09:30
480-126333-39	W-171018-MB-39	Water	10/18/17 10:22	10/23/17 09:30
480-126333-40	W-171018-MB-40	Water	10/18/17 10:25	10/23/17 09:30
480-126333-41	W-171018-MB-41	Water	10/18/17 10:56	10/23/17 09:30
480-126333-42	W-171018-MB-42	Water	10/18/17 11:02	10/23/17 09:30
480-126333-43	W-171018-MB-43	Water	10/18/17 11:06	10/23/17 09:30
480-126333-44	W-171018-MB-44	Water	10/18/17 11:30	10/23/17 09:30
480-126333-45	W-171018-MB-45	Water	10/18/17 11:36	10/23/17 09:30
480-126333-46	W-171018-MB-46	Water	10/18/17 11:41	10/23/17 09:30
480-126333-47	W-171018-MB-47	Water	10/18/17 12:45	10/23/17 09:30
480-126333-48	W-171018-MB-48	Water	10/18/17 12:50	10/23/17 09:30
480-126333-49	W-171018-MB-49	Water	10/18/17 12:55	10/23/17 09:30
480-126333-50	W-171018-MB-50	Water	10/18/17 12:56	10/23/17 09:30
480-126333-51	W-171018-MB-51	Water	10/18/17 13:20	10/23/17 09:30
480-126333-52	W-171018-MB-52	Water	10/18/17 13:22	10/23/17 09:30
480-126333-53	W-171018-MB-53	Water	10/18/17 13:27	10/23/17 09:30

Sample Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-126333-54	W-171018-MB-54	Water	10/18/17 13:31	10/23/17 09:30
480-126333-55	W-171018-MB-55	Water	10/18/17 14:12	10/23/17 09:30
480-126333-56	W-171018-MB-56	Water	10/18/17 14:19	10/23/17 09:30
480-126333-57	W-171018-MB-57	Water	10/18/17 14:22	10/23/17 09:30
480-126333-58	W-171019-MB-58	Water	10/19/17 08:04	10/23/17 09:30
480-126333-59	W-171019-MB-59	Water	10/19/17 08:40	10/23/17 09:30
480-126333-60	W-171019-MB-60	Water	10/19/17 08:45	10/23/17 09:30
480-126333-61	W-171019-MB-61	Water	10/19/17 08:49	10/23/17 09:30
480-126333-62	W-171019-MB-62	Water	10/19/17 08:50	10/23/17 09:30
480-126333-63	W-171019-MB-63	Water	10/19/17 09:20	10/23/17 09:30
480-126333-64	W-171019-MB-64	Water	10/19/17 09:22	10/23/17 09:30
480-126333-65	W-171019-MB-65	Water	10/19/17 09:45	10/23/17 09:30
480-126333-66	W-171019-MB-66	Water	10/19/17 09:55	10/23/17 09:30
480-126333-67	W-171019-MB-67	Water	10/19/17 10:00	10/23/17 09:30
480-126333-68	W-171019-MB-68	Water	10/19/17 10:28	10/23/17 09:30
480-126333-69	W-171019-MB-69	Water	10/19/17 10:35	10/23/17 09:30
480-126333-70	W-171019-MB-70	Water	10/19/17 12:04	10/23/17 09:30
480-126333-71	W-171019-MB-71	Water	10/19/17 12:40	10/23/17 09:30
480-126333-72	W-171019-MB-72	Water	10/19/17 12:45	10/23/17 09:30
480-126333-73	W-171019-MB-73	Water	10/19/17 13:05	10/23/17 09:30
480-126333-74	W-171019-MB-74	Water	10/19/17 13:06	10/23/17 09:30
480-126333-75	W-171019-MB-75	Water	10/19/17 13:30	10/23/17 09:30
480-126333-76	W-171019-MB-76	Water	10/19/17 13:35	10/23/17 09:30
480-126333-77	W-171019-MB-77	Water	10/19/17 13:37	10/23/17 09:30
480-126333-78	TRIP BLANK	Water	10/19/17 00:00	10/23/17 09:30

Quantitation Limit Exceptions Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126333-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
524.2	Water	Trichloroethene	ug/L	0.20	0.5
524.2	Water	Vinyl chloride	ug/L	0.20	0.5

GHD Services Inc.

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

1801 Old Highway 8 Northwest, Suite 114
St. Paul, Minnesota 55112 United States
Phone: (651) 639-0913 Fax: (651) 639-0923

COC NO.: SP-02514
PAGE 1 OF 16
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 002012	Laboratory Name: Test America	Lab Location: Buffalo NY	SSOW ID:
Project Name: Hwy 96	Lab Contact:	Lab Quote No:	Cooler No:
Project Location: N. Oaks, MN			Carrier: Fed Ex
Chemistry Contact: Grant Anderson			Airbill No:
Sampler(s): M. Barnes			Date Shipped:

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOCs 524.2 Standard RL List	Chloride 300.0A	524.2 MDL								MS/MSD Request	Comments/ Special Instructions:
1	W-171016-MB-01	10/16/17	14:30	WG	G	1	3							4	X	X	X									
2	W-171016-MB-02		15:00			1	3							4	X	X	X									
	-03		15:25			1	3							4	X	X	X									
	-04		15:52			1	3							4	X	X	X									
	W-171017-MB-05	10/17/17	09:54			1	3							4	X	X	X									
	-06		09:55			1	3							4	X	X	X									
	-07		10:00			1	3							4	X	X	X									
8	-08		10:06			1	3							4	X	X	X									
9	-09		10:08			1	3							4	X	X	X									
10	-10		10:36			1	3							4	X	X	X									
11	-11		10:40			3	9							12	X	X	X								X	
12	-12		11:15			1	3							4	X	X	X									
13	-13		11:20			1	3							4	X	X	X									
14	-14		11:21			1	3							4	X	X	X									
15	-15		11:25			1	3							4	X	X	X									

480-126333 COC

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other: Standard

Total Number of Containers: 68

All Samples in Cooler must be on COC

Notes/ Special Requirements: 1,1 - Dichloroethane, cis - 1,2 - Dichloroethane, Vinyl chloride only. TCE RL = 0.2 ug/L

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Matthew Barnes	GHD	10/20/17	16:00	1. [illegible]	[illegible]	10/21/17	0930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

2,2,2,1,1,7 #1

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

GHD Services Inc.

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

1801 Old Highway 8 Northwest, Suite 114
St. Paul, Minnesota 55112 United States
Phone: (651) 639-0913 Fax: (651) 639-0923

COC NO.: SP- 02515

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 002012	Laboratory Name: Test America	Lab Location: Buffalo NY	SSOW ID:
Project Name: Hwy 96	Lab Contact:	Lab Quote No:	Cooler No:
Project Location: N. Oaks, MN			Carrier: FedEx
Chemistry Contact: Grant Anderson			Airbill No:
Sampler(s): M. Barnes			Date Shipped:

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd//yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOCs 524.2 Standard List RL	Chloride 300.0A	524.2 MDL								MS/MSD Request	Comments/ Special Instructions:
1	W-171017-MB-16	10/17/17	11:27	WG	G	1	3							4	X	X	X									
2	-17		12:18			1	3							4	X	X	X									
3	-18		12:23			1	3							4	X	X	X									
	-19		12:31			1	3							4	X	X	X									
	-20		12:57			1	3							4	X	X	X									
	-21		13:04			1	3							4	X	X	X									
	-22		13:09			1	3							4	X	X	X									
8	-23		13:47			1	3							4	X	X	X									
9	-24		13:51			1	3							4	X	X	X									
10	-25		13:58			1	3							4	X	X	X									
11	-26		14:00			1	3							4	X	X	X									
12	-27		14:32			1	3							4	X	X	X									
13	-28		14:39			1	3							4	X	X	X									
14	-29		14:41			1	3							4	X	X	X									
15	-30		14:47			3	9							12	X	X	X								X	

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other: Standard

Total Number of Containers: 68

All Samples in Cooler must be on COC

Notes/ Special Requirements: ~~Ex~~ 1,1-Dichloroethane, cis-1,2-Dichloroethane, vinyl chloride only. TCE RL = 0.2 ug/L

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Matthew Barnes	GHD	10/20/17	16:00	1. [illegible]	[illegible]	10/21/17	0930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

2,7,21,1,7 #1

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

GHD Services Inc.

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

1801 Old Highway 8 Northwest, Suite 114
St. Paul, Minnesota 55112 United States
Phone: (651) 639-0913 Fax: (651) 639-0923

COC NO.: SP-02516
PAGE 3 OF ~~X~~ 6
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 002012	Laboratory Name: Test America	Lab Location: Buffalo NY	SSOW ID:
Project Name: Hwy 96	Lab Contact:	Lab Quote No:	Cooler No:
Project Location: N. Oaks, MN			Carrier: FedEx
Chemistry Contact: Grant Anderson			Airbill No:
Sampler(s): M. Barnes			Date Shipped:

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOCs 524.2 Standard List	Chloride 300.0	524.2 MDL								MS/MSD Request	Comments/ Special Instructions:
1	W-171018-MB-31	10-18-17	8:59	WG	G	1	3							4	X	X	X									
2	-32		9:03			1	3							4	X	X	X									
3	-33		9:35			1	3							4	X	X	X									
	-34		9:40			1	3							4	X	X	X									
	-35		9:44			1	3							4	X	X	X									
	-36		10:14			1	3							4	X	X	X									
	-37		10:15			1	3							4	X	X	X									
8	-38		10:20			1	3							4	X	X	X									
9	-39		10:22			1	3							4	X	X	X									
10	-40		10:25			1	3							4	X	X	X									
11	-41		10:56			1	3							4	X	X	X									
12	-42		11:02			1	3							4	X	X	X									
13	-43		11:06			1	3							4	X	X	X									
14	-44		11:30			1	3							4	X	X	X									
15	-45		11:36			1	3							4	X	X	X									

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☐ Other:

Total Number of Containers: 60

All Samples in Cooler must be on COC

Notes/ Special Requirements: 1,1 - Dichloroethane
CIS - 1,2 - Dichloroethane, Vinyl chloride only.
TCE RL = 0.2 ug/L

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Matthew Bre	GHD	10/20/17	16:00	1. [illegible]	[illegible]	10/21/17	0930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

22,21,17 #1

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

GHD Services Inc.
CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

1801 Old Highway 8 Northwest, Suite 114
St. Paul, Minnesota 55112 United States
Phone: (651) 639-0913 Fax: (651) 639-0923

COC NO.: SP- 02517
PAGE 4 OF 16
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 002012	Laboratory Name: Test America	Lab Location: Buffalo NY	SSOW ID:
Project Name: Hwy 96	Lab Contact:	Lab Quote No:	Cooler No:
Project Location: N. Oaks, MN			Carrier: FedEx
Chemistry Contact: Grant Anderson			Airbill No:
Sampler(s): M. Barnes			Date Shipped:

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd//yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOCs 524.2 Short List RL	Chloride 300.0A	524.2 MDL								MS/MSD Request	Comments/ Special Instructions:
1	W-171018-MB-46	10/18/17	11:41	WG	G	1	3							4	X	X	X									
2	-47		12:45			1	3							4	X	X	X									
	-48		12:50			1	3							4	X	X	X									
	-49		12:55			1	3							4	X	X	X									
	-50		12:56			1	3							4	X	X	X									
	-51		13:20			1	3							4	X	X	X									
	-52		13:22			1	3							4	X	X	X									
8	-53		13:27			1	3							4	X	X	X									
9	-54		13:31			3	9							12	X	X	X								X	
10	-55		14:12			1	3							4	X	X	X									
11	-56		14:19			1	3							4	X	X	X									
12	-57		14:22			1	3							4	X	X	X									
13	W-171019-MB-58	10/19/17	08:04			1	3							4	X	X	X									
14	-59		08:40			1	3							4	X	X	X									
15	-60		08:45			1	3							4	X	X	X									

TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other: Standard

Total Number of Containers: 68

All Samples in Cooler must be on COC

Notes/ Special Requirements: 1,1- Dichloroethane, cis-1,2-Dichloroethane, Vinyl Chloride only. TCE RL = 0.2 ug/L

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. [signature]	GHD	10/20/17	16:00	1. [signature]	—	10/21/17	0930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

GHD Services Inc.

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

1801 Old Highway 8 Northwest, Suite 114
St. Paul, Minnesota 55112 United States
Phone: (651) 639-0913 Fax: (651) 639-0923

COC NO.: SP-02518

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 002012	Laboratory Name: Test America	Lab Location: Buffalo NY	SSOW ID:
Project Name: Hwy 96	Lab Contact:	Lab Quote No:	Cooler No:
Project Location: N. Oaks, MN			Carrier: Fed Ex
Chemistry Contact: Grant Anderson			Airbill No:
Sampler(s): M. Baines			Date Shipped:

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOCs 524.2 Standard List RL	Chloride 300.0	524.2 MDL								MS/MSD Request	Comments/ Special Instructions:
1	W-171019-MB-61	10/19/17	08:49	WG	G	1	3							4	X	X	X									
2	-62		08:50			1	3							4	X	X	X									
	-63		09:20			1	3							4	X	X	X									
	-64		09:22			1	3							4	X	X	X									
	-65		09:45			1	3							4	X	X	X									
	-66		09:55			1	3							4	X	X	X									
	-67		10:00			1	3							4	X	X	X									
8	-68		10:28			1	3							4	X	X	X									
9	-69		10:35			1	3							4	X	X	X									
10	-70		12:04			1	3							4	X	X	X									
11	-71		12:40			1	3							4	X	X	X									
12	-72		12:45			1	3							4	X	X	X									
13	-73		13:05			3	9							12	X	X	X								X	
14	-74		13:06			1	3							4	X	X	X									
15	-75		13:30			1	3							4	X	X	X									

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other: Standard

Total Number of Containers: 68

All Samples in Cooler must be on COC

Notes/ Special Requirements: 1,1 - Dichloroethane, cis - 1,2 - Dichloroethane, Vinyl Chloride only. TCE RL = 0.2 ug/L

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Matthew Barnes	GHD	10/20/17	1600	1. [illegible]	[illegible]	10/21/17	0930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

2.2, 2.1, 1.7

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

GHD Services Inc.

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

1801 Old Highway 8 Northwest, Suite 114
St. Paul, Minnesota 55112 United States
Phone: (651) 639-0913 Fax: (651) 639-0923

COC NO.: SP- 02519

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 002012	Laboratory Name: Test America	Lab Location: Buffalo NY	SSOW ID:
Project Name: Hwy 96	Lab Contact:	Lab Quote No:	Cooler No:
Project Location: N. Oaks, MN			Carrier: FedEx
Chemistry Contact: Grant Anderson			Airbill No:
Sampler(s): M. Barnes			Date Shipped:

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd//yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOCs 524.2 Standard List RL	Chloride 300.0A	524.2 MDL	MS/MSD Request	Comments/ Special Instructions:
1	W - 171019-MB-76	10/19/17	13:35	WG	G	1	3							4	X	X	X		
2	W - 171019-MB-77	10/19/17	13:37	WG	G	1	3							4	X	X	X		
3	TRIP BLANK	—	—				4							4					
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Analysis Requested (See Back of COC for Definitions)

TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other: Standard

Total Number of Containers: 12

All Samples in Cooler must be on COC

Notes/ Special Requirements: 1,1 -Dichloroethane, cis-1,2-Dichloroethane, vinyl chloride only
TCE RL = 0.2 ug/L

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Matthew R	E/A	10/20/17	16:00	1. [illegible]	[illegible]	10/21/17	0930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

2.2, 2.1, 1.7 #1

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-126333-1

Login Number: 126333

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GHD
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	False	NA: Check done at department level as required

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-126586-1
Client Project/Site: 002012, Highway 96 Landfill

For:
GHD Services Inc.
1801 Old Highway 8 NW
Suite 114
St Paul, Minnesota 55112

Attn: Mr. Grant Anderson

Melissa Deyo

Authorized for release by:
11/7/2017 9:38:26 AM

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-126586-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-126586-1

Receipt
The samples were received on 10/26/2017 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
Method(s) 524.2: The continuing calibration verification (CCV) associated with batch 480-384992 recovered outside acceptance criteria, low biased, for trans-1,4-Dichloro-2-butene and Allyl chloride. A low level laboratory control sample (LLCS) was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported. The following samples are impacted: W-171025-MB-78 (480-126586-1), W-171025-MB-79 (480-126586-2), W-171025-MB-80 (480-126586-3), W-171025-MB-81 (480-126586-4), W-171025-MB-83 (480-126586-5) and TRIP BLANK (480-126586-6).

Method(s) 524.2: Due to the specific client requirements of the MDL/RL, the recovery of Total Xylenes was below the MDL, therefore could not be calculated out in the low level laboratory control spike (LLCS). The final recovery for Total Xylenes was 0.895ug/L and Trihalomethanes was 1.897ug/L in the LLCS. The following samples are impacted: W-171025-MB-78 (480-126586-1), W-171025-MB-79 (480-126586-2), W-171025-MB-80 (480-126586-3), W-171025-MB-81 (480-126586-4), W-171025-MB-83 (480-126586-5) and TRIP BLANK (480-126586-6).

Method(s) 524.2: The analyte trans-1,4-Dichloro-2-butene fails recovery limits in the LCS/LCSD for 524.2, though is a defined poor performer for 8260, therefore the data has been reported. The following samples are impacted: W-171025-MB-78 (480-126586-1), W-171025-MB-79 (480-126586-2), W-171025-MB-80 (480-126586-3), W-171025-MB-81 (480-126586-4), W-171025-MB-83 (480-126586-5) and TRIP BLANK (480-126586-6).

Method(s) 524.2: The laboratory control sample (LCS) associated with batch 480-384992 recovered outside acceptance criteria, low biased, for Allyl chloride. A low level laboratory control sample (LLCS) was analyzed, and the target analyte was detected. Since the associated samples were non-detect for these analyte, the data have been reported. The following samples are impacted: W-171025-MB-78 (480-126586-1), W-171025-MB-79 (480-126586-2), W-171025-MB-80 (480-126586-3), W-171025-MB-81 (480-126586-4), W-171025-MB-83 (480-126586-5) and TRIP BLANK (480-126586-6).

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

HPLC/IC
Method(s) 300.0: The following samples was reported with elevated reporting limits for all analytes: W-171025-MB-79 (480-126586-2) and W-171025-MB-81 (480-126586-4). The sample was analyzed at a dilution based on screening results.

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

Job ID: 480-126586-2

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-126586-2

Receipt
The samples were received on 10/26/2017 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

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

Detection Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Client Sample ID: W-171025-MB-78 — Lab Sample ID: 480-126586-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.1		0.50	0.50	mg/L	1		300.0	Total/NA

Client Sample ID: W-171025-MB-79 — Lab Sample ID: 480-126586-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28.9		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171025-MB-80 — Lab Sample ID: 480-126586-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		0.50	0.50	mg/L	1		300.0	Total/NA

Client Sample ID: W-171025-MB-81 — Lab Sample ID: 480-126586-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28.0		1.0	1.0	mg/L	2		300.0	Total/NA

Client Sample ID: W-171025-MB-83 — Lab Sample ID: 480-126586-5

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.2		0.50	0.50	mg/L	1		300.0	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-126586-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Client Sample ID: W-171025-MB-78

Lab Sample ID: 480-126586-1

Date Collected: 10/25/17 09:30

Matrix: Water

Date Received: 10/26/17 10:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 18:23	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 18:23	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 18:23	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 18:23	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
2-Hexanone	ND		10	10	ug/L			11/01/17 18:23	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 18:23	1
Acetone	ND		10	10	ug/L			11/01/17 18:23	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 18:23	1
Allyl chloride	ND	*	0.50	0.50	ug/L			11/01/17 18:23	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Client Sample ID: W-171025-MB-78

Lab Sample ID: 480-126586-1

Date Collected: 10/25/17 09:30
Date Received: 10/26/17 10:00

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 18:23	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 18:23	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
t-Butanol	ND		10	10	ug/L			11/01/17 18:23	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 18:23	1
trans-1,4-Dichloro-2-butene	ND	*	2.5	2.5	ug/L			11/01/17 18:23	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 18:23	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 18:23	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 18:23	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 18:23	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*11/01/17 18:23*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*11/01/17 18:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.1**		0.50	0.50	mg/L			11/03/17 15:10	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Client Sample ID: W-171025-MB-79

Lab Sample ID: 480-126586-2

Date Collected: 10/25/17 10:05

Matrix: Water

Date Received: 10/26/17 10:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 18:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 18:53	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 18:53	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 18:53	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
2-Hexanone	ND		10	10	ug/L			11/01/17 18:53	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 18:53	1
Acetone	ND		10	10	ug/L			11/01/17 18:53	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 18:53	1
Allyl chloride	ND	*	0.50	0.50	ug/L			11/01/17 18:53	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1

Client Sample ID: W-171025-MB-79

Lab Sample ID: 480-126586-2

Date Collected: 10/25/17 10:05

Matrix: Water

Date Received: 10/26/17 10:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 18:53	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 18:53	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
t-Butanol	ND		10	10	ug/L			11/01/17 18:53	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 18:53	1
trans-1,4-Dichloro-2-butene	ND	*	2.5	2.5	ug/L			11/01/17 18:53	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 18:53	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 18:53	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 18:53	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 18:53	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*11/01/17 18:53*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*11/01/17 18:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.9**		1.0	1.0	mg/L			11/03/17 15:18	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Client Sample ID: W-171025-MB-80

Lab Sample ID: 480-126586-3

Date Collected: 10/25/17 10:00
Date Received: 10/26/17 10:00

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 19:23	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 19:23	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 19:23	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 19:23	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
2-Hexanone	ND		10	10	ug/L			11/01/17 19:23	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 19:23	1
Acetone	ND		10	10	ug/L			11/01/17 19:23	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 19:23	1
Allyl chloride	ND	*	0.50	0.50	ug/L			11/01/17 19:23	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Client Sample ID: W-171025-MB-80

Lab Sample ID: 480-126586-3

Date Collected: 10/25/17 10:00
Date Received: 10/26/17 10:00

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 19:23	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 19:23	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
t-Butanol	ND		10	10	ug/L			11/01/17 19:23	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 19:23	1
trans-1,4-Dichloro-2-butene	ND	*	2.5	2.5	ug/L			11/01/17 19:23	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 19:23	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 19:23	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 19:23	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 19:23	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*11/01/17 19:23*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*11/01/17 19:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.8**		0.50	0.50	mg/L			11/03/17 16:13	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Client Sample ID: W-171025-MB-81

Date Collected: 10/25/17 10:27
Date Received: 10/26/17 10:00

Lab Sample ID: 480-126586-4

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 19:52	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 19:52	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 19:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 19:52	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
2-Hexanone	ND		10	10	ug/L			11/01/17 19:52	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 19:52	1
Acetone	ND		10	10	ug/L			11/01/17 19:52	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 19:52	1
Allyl chloride	ND	*	0.50	0.50	ug/L			11/01/17 19:52	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Client Sample ID: W-171025-MB-81

Lab Sample ID: 480-126586-4

Date Collected: 10/25/17 10:27
Matrix: Water
Date Received: 10/26/17 10:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 19:52	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 19:52	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
t-Butanol	ND		10	10	ug/L			11/01/17 19:52	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 19:52	1
trans-1,4-Dichloro-2-butene	ND	*	2.5	2.5	ug/L			11/01/17 19:52	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 19:52	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 19:52	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 19:52	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 19:52	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*11/01/17 19:52*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*11/01/17 19:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.0**		1.0	1.0	mg/L			11/03/17 16:21	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Client Sample ID: W-171025-MB-83

Lab Sample ID: 480-126586-5

Date Collected: 10/25/17 13:50
Date Received: 10/26/17 10:00

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 20:23	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 20:23	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 20:23	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 20:23	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
2-Hexanone	ND		10	10	ug/L			11/01/17 20:23	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 20:23	1
Acetone	ND		10	10	ug/L			11/01/17 20:23	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 20:23	1
Allyl chloride	ND	*	0.50	0.50	ug/L			11/01/17 20:23	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Client Sample ID: W-171025-MB-83

Lab Sample ID: 480-126586-5

Date Collected: 10/25/17 13:50
Matrix: Water
Date Received: 10/26/17 10:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 20:23	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 20:23	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
t-Butanol	ND		10	10	ug/L			11/01/17 20:23	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 20:23	1
trans-1,4-Dichloro-2-butene	ND	*	2.5	2.5	ug/L			11/01/17 20:23	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 20:23	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 20:23	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 20:23	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 20:23	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*11/01/17 20:23*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*11/01/17 20:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.2**		0.50	0.50	mg/L			11/03/17 16:29	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-126586-6

Date Collected: 10/25/17 00:00
Matrix: Water
Date Received: 10/26/17 10:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 20:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 20:53	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 20:53	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 20:53	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
2-Hexanone	ND		10	10	ug/L			11/01/17 20:53	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 20:53	1
Acetone	ND		10	10	ug/L			11/01/17 20:53	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 20:53	1
Allyl chloride	ND	*	0.50	0.50	ug/L			11/01/17 20:53	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-126586-6

Date Collected: 10/25/17 00:00
Matrix: Water
Date Received: 10/26/17 10:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 20:53	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 20:53	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
t-Butanol	ND		10	10	ug/L			11/01/17 20:53	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 20:53	1
trans-1,4-Dichloro-2-butene	ND	*	2.5	2.5	ug/L			11/01/17 20:53	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 20:53	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 20:53	1
Trihalomethanes, Total	ND	*	2.0	2.0	ug/L			11/01/17 20:53	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 20:53	1
Xylenes, Total	ND	*	1.0	1.0	ug/L			11/01/17 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*11/01/17 20:53*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*11/01/17 20:53*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)						
480-126586-1	W-171025-MB-78	102	90						
480-126586-2	W-171025-MB-79	100	90						
480-126586-3	W-171025-MB-80	100	93						
480-126586-4	W-171025-MB-81	100	91						
480-126586-5	W-171025-MB-83	101	92						
480-126586-6	TRIP BLANK	101	91						
LCS 480-384992/3	Lab Control Sample	98	90						
LCSD 480-384992/4	Lab Control Sample Dup	101	88						
LLCS 480-384992/5	Lab Control Sample	99	88						
MB 480-384992/6	Method Blank	101	91						

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-384992/6
Matrix: Water
Analysis Batch: 384992

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.18	ug/L			11/01/17 12:41	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			11/01/17 12:41	1
Vinyl chloride	ND		0.20	0.18	ug/L			11/01/17 12:41	1

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,1,1-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,1,2-Trichloroethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,1-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,1-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,2-Dibromoethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,2-Dichloroethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,3-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,3-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
1,4-Dichlorobenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
2,2-Dichloropropane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
2-Butanone (MEK)	ND		10	10	ug/L			11/01/17 12:41	1
2-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
2-Hexanone	ND		10	10	ug/L			11/01/17 12:41	1
4-Chlorotoluene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
4-Isopropyltoluene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
4-Methyl-2-pentanone (MIBK)	ND		10	10	ug/L			11/01/17 12:41	1
Acetone	ND		10	10	ug/L			11/01/17 12:41	1
Acrylonitrile	ND		10	10	ug/L			11/01/17 12:41	1
Allyl chloride	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Benzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Bromobenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Bromochloromethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Bromoform	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Bromomethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Carbon disulfide	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Carbon tetrachloride	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Chlorobenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Chlorodibromomethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Chloroethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Chloroform	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Chloromethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 12:41	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-384992/6
Matrix: Water
Analysis Batch: 384992

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Dichlorobromomethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Dichlorodifluoromethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Dichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Ethyl ether	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Ethylbenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Hexachlorobutadiene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Iodomethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Isopropylbenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Methyl tert-butyl ether	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Methylene Chloride	ND		2.5	2.5	ug/L			11/01/17 12:41	1
m-Xylene & p-Xylene	ND		1.0	1.0	ug/L			11/01/17 12:41	1
Naphthalene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
n-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
n-Propylbenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
o-Xylene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
sec-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Styrene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
t-Butanol	ND		10	10	ug/L			11/01/17 12:41	1
tert-Butylbenzene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Tetrachloroethene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Toluene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
trans-1,2-Dichloroethene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L			11/01/17 12:41	1
trans-1,4-Dichloro-2-butene	ND		2.5	2.5	ug/L			11/01/17 12:41	1
Trichloroethene	ND		0.20	0.20	ug/L			11/01/17 12:41	1
Trichlorofluoromethane	ND		0.50	0.50	ug/L			11/01/17 12:41	1
Trihalomethanes, Total	ND		2.0	2.0	ug/L			11/01/17 12:41	1
Vinyl acetate	ND		2.5	2.5	ug/L			11/01/17 12:41	1
Xylenes, Total	ND		1.0	1.0	ug/L			11/01/17 12:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*11/01/17 12:41*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*11/01/17 12:41*	*1*

Lab Sample ID: LCS 480-384992/3
Matrix: Water
Analysis Batch: 384992

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	4.00	3.97		ug/L		99	70 - 130
cis-1,2-Dichloroethene	4.00	4.24		ug/L		106	70 - 130
Vinyl chloride	4.00	3.78		ug/L		95	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.98		ug/L		100	70 - 130
1,1,1-Trichloroethane	4.00	3.87		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.54		ug/L		89	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-384992/3
Matrix: Water
Analysis Batch: 384992

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	4.00	3.67		ug/L		92	70 - 130
1,1-Dichloroethene	4.00	3.78		ug/L		94	70 - 130
1,1-Dichloropropene	4.00	3.88		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	4.00	3.86		ug/L		96	70 - 130
1,2,3-Trichloropropane	4.00	3.80		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	4.00	3.84		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	4.00	3.57		ug/L		89	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.66		ug/L		92	70 - 130
1,2-Dibromoethane	4.00	3.82		ug/L		95	70 - 130
1,2-Dichlorobenzene	4.00	4.13		ug/L		103	70 - 130
1,2-Dichloroethane	4.00	3.73		ug/L		93	70 - 130
1,2-Dichloropropane	4.00	3.77		ug/L		94	70 - 130
1,3,5-Trimethylbenzene	4.00	3.66		ug/L		92	70 - 130
1,3-Dichlorobenzene	4.00	4.09		ug/L		102	70 - 130
1,3-Dichloropropane	4.00	3.61		ug/L		90	70 - 130
1,4-Dichlorobenzene	4.00	4.12		ug/L		103	70 - 130
2,2-Dichloropropane	4.00	4.36		ug/L		109	70 - 130
2-Butanone (MEK)	20.0	20.9		ug/L		105	70 - 130
2-Chlorotoluene	4.00	3.47		ug/L		87	70 - 130
2-Hexanone	20.0	19.0		ug/L		95	70 - 130
4-Chlorotoluene	4.00	3.46		ug/L		86	70 - 130
4-Isopropyltoluene	4.00	3.65		ug/L		91	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.1		ug/L		90	70 - 130
Acetone	20.0	23.4		ug/L		117	70 - 130
Benzene	4.00	3.90		ug/L		98	70 - 130
Bromobenzene	4.00	3.88		ug/L		97	70 - 130
Bromochloromethane	4.00	4.16		ug/L		104	70 - 130
Bromoform	4.00	3.82		ug/L		96	70 - 130
Bromomethane	4.00	2.95		ug/L		74	70 - 130
Carbon disulfide	4.00	3.95		ug/L		99	70 - 130
Carbon tetrachloride	4.00	3.70		ug/L		92	70 - 130
Chlorobenzene	4.00	3.80		ug/L		95	70 - 130
Chlorodibromomethane	4.00	3.80		ug/L		95	70 - 130
Chloroethane	4.00	2.87		ug/L		72	70 - 130
Chloroform	4.00	3.89		ug/L		97	70 - 130
Chloromethane	4.00	4.26		ug/L		106	70 - 130
cis-1,3-Dichloropropene	4.00	3.62		ug/L		91	70 - 130
Dibromomethane	4.00	3.53		ug/L		88	70 - 130
Dichlorobromomethane	4.00	3.48		ug/L		87	70 - 130
Dichlorodifluoromethane	4.00	3.77		ug/L		94	70 - 130
Ethylbenzene	4.00	3.48		ug/L		87	70 - 130
Hexachlorobutadiene	4.00	3.37		ug/L		84	70 - 130
Isopropylbenzene	4.00	3.70		ug/L		93	70 - 130
Methyl tert-butyl ether	4.00	3.77		ug/L		94	70 - 130
Methylene Chloride	4.00	3.99		ug/L		100	70 - 130
m-Xylene & p-Xylene	4.00	3.51		ug/L		88	70 - 130
Naphthalene	4.00	3.54		ug/L		88	70 - 130
n-Butylbenzene	4.00	3.33		ug/L		83	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-384992/3
Matrix: Water
Analysis Batch: 384992

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Propylbenzene	4.00	3.41		ug/L		85	70 - 130
o-Xylene	4.00	3.53		ug/L		88	70 - 130
sec-Butylbenzene	4.00	3.56		ug/L		89	70 - 130
Styrene	4.00	3.69		ug/L		92	70 - 130
tert-Butylbenzene	4.00	3.64		ug/L		91	70 - 130
Tetrachloroethene	4.00	4.26		ug/L		107	70 - 130
Toluene	4.00	3.61		ug/L		90	70 - 130
trans-1,2-Dichloroethene	4.00	3.69		ug/L		92	70 - 130
trans-1,3-Dichloropropene	4.00	3.33		ug/L		83	70 - 130
Trichloroethene	4.00	4.25		ug/L		106	70 - 130
Trichlorofluoromethane	4.00	3.55		ug/L		89	70 - 130
Xylenes, Total	8.00	7.04		ug/L		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*

Lab Sample ID: LCSD 480-384992/4
Matrix: Water
Analysis Batch: 384992

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	4.00	3.96		ug/L		99	70 - 130	0	20
cis-1,2-Dichloroethene	4.00	4.30		ug/L		108	70 - 130	2	20
Vinyl chloride	4.00	3.87		ug/L		97	70 - 130	2	20

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.00	4.00		ug/L		100	70 - 130	1	20
1,1,1-Trichloroethane	4.00	4.07		ug/L		102	70 - 130	5	20
1,1,2,2-Tetrachloroethane	4.00	3.58		ug/L		90	70 - 130	1	20
1,1,2-Trichloroethane	4.00	3.81		ug/L		95	70 - 130	4	20
1,1-Dichloroethene	4.00	3.99		ug/L		100	70 - 130	6	20
1,1-Dichloropropene	4.00	3.91		ug/L		98	70 - 130	1	20
1,2,3-Trichlorobenzene	4.00	3.96		ug/L		99	70 - 130	3	20
1,2,3-Trichloropropane	4.00	3.81		ug/L		95	70 - 130	0	20
1,2,4-Trichlorobenzene	4.00	3.90		ug/L		98	70 - 130	2	20
1,2,4-Trimethylbenzene	4.00	3.68		ug/L		92	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	4.00	3.63		ug/L		91	70 - 130	1	20
1,2-Dibromoethane	4.00	3.74		ug/L		94	70 - 130	2	20
1,2-Dichlorobenzene	4.00	4.15		ug/L		104	70 - 130	1	20
1,2-Dichloroethane	4.00	3.81		ug/L		95	70 - 130	2	20
1,2-Dichloropropane	4.00	3.89		ug/L		97	70 - 130	3	20
1,3,5-Trimethylbenzene	4.00	3.70		ug/L		92	70 - 130	1	20
1,3-Dichlorobenzene	4.00	4.17		ug/L		104	70 - 130	2	20
1,3-Dichloropropane	4.00	3.61		ug/L		90	70 - 130	0	20
1,4-Dichlorobenzene	4.00	4.24		ug/L		106	70 - 130	3	20
2,2-Dichloropropane	4.00	4.23		ug/L		106	70 - 130	3	20
2-Butanone (MEK)	20.0	20.0		ug/L		100	70 - 130	5	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-384992/4
Matrix: Water
Analysis Batch: 384992

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene			4.00	3.48		ug/L		87	70 - 130	0	20
2-Hexanone			20.0	18.0		ug/L		90	70 - 130	5	20
4-Chlorotoluene			4.00	3.49		ug/L		87	70 - 130	1	20
4-Isopropyltoluene			4.00	3.74		ug/L		93	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)			20.0	18.1		ug/L		90	70 - 130	0	20
Acetone			20.0	22.3		ug/L		111	70 - 130	5	20
Benzene			4.00	3.92		ug/L		98	70 - 130	0	20
Bromobenzene			4.00	3.95		ug/L		99	70 - 130	2	20
Bromochloromethane			4.00	4.52		ug/L		113	70 - 130	8	20
Bromoform			4.00	3.70		ug/L		93	70 - 130	3	20
Bromomethane			4.00	3.34		ug/L		83	70 - 130	12	20
Carbon disulfide			4.00	4.01		ug/L		100	70 - 130	2	20
Carbon tetrachloride			4.00	3.92		ug/L		98	70 - 130	6	20
Chlorobenzene			4.00	3.81		ug/L		95	70 - 130	0	20
Chlorodibromomethane			4.00	3.80		ug/L		95	70 - 130	0	20
Chloroethane			4.00	3.15		ug/L		79	70 - 130	9	20
Chloroform			4.00	3.97		ug/L		99	70 - 130	2	20
Chloromethane			4.00	4.25		ug/L		106	70 - 130	0	20
cis-1,3-Dichloropropene			4.00	3.75		ug/L		94	70 - 130	4	20
Dibromomethane			4.00	3.57		ug/L		89	70 - 130	1	20
Dichlorobromomethane			4.00	3.57		ug/L		89	70 - 130	3	20
Dichlorodifluoromethane			4.00	3.80		ug/L		95	70 - 130	1	20
Ethylbenzene			4.00	3.53		ug/L		88	70 - 130	2	20
Hexachlorobutadiene			4.00	3.50		ug/L		88	70 - 130	4	20
Isopropylbenzene			4.00	3.74		ug/L		93	70 - 130	1	20
Methyl tert-butyl ether			4.00	3.72		ug/L		93	70 - 130	1	20
Methylene Chloride			4.00	3.98		ug/L		99	70 - 130	0	20
m-Xylene & p-Xylene			4.00	3.51		ug/L		88	70 - 130	0	20
Naphthalene			4.00	3.55		ug/L		89	70 - 130	0	20
n-Butylbenzene			4.00	3.45		ug/L		86	70 - 130	4	20
n-Propylbenzene			4.00	3.49		ug/L		87	70 - 130	2	20
o-Xylene			4.00	3.57		ug/L		89	70 - 130	1	20
sec-Butylbenzene			4.00	3.75		ug/L		94	70 - 130	5	20
Styrene			4.00	3.65		ug/L		91	70 - 130	1	20
tert-Butylbenzene			4.00	3.78		ug/L		94	70 - 130	4	20
Tetrachloroethene			4.00	4.31		ug/L		108	70 - 130	1	20
Toluene			4.00	3.71		ug/L		93	70 - 130	3	20
trans-1,2-Dichloroethene			4.00	3.52		ug/L		88	70 - 130	5	20
trans-1,3-Dichloropropene			4.00	3.45		ug/L		86	70 - 130	3	20
Trichloroethene			4.00	4.39		ug/L		110	70 - 130	3	20
Trichlorofluoromethane			4.00	3.48		ug/L		87	70 - 130	2	20
Xylenes, Total			8.00	7.08		ug/L		89	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-384992/5
Matrix: Water
Analysis Batch: 384992

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.500	0.559		ug/L		112	50 - 150
cis-1,2-Dichloroethene	0.500	0.550		ug/L		110	50 - 150
Vinyl chloride	0.500	0.464		ug/L		93	50 - 150

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.500	ND		ug/L		98	50 - 150
1,1,1-Trichloroethane	0.500	0.531		ug/L		106	50 - 150
1,1,2,2-Tetrachloroethane	0.500	ND		ug/L		92	50 - 150
1,1,2-Trichloroethane	0.500	ND		ug/L		92	50 - 150
1,1-Dichloroethene	0.500	ND		ug/L		69	50 - 150
1,1-Dichloropropene	0.500	ND		ug/L		99	50 - 150
1,2,3-Trichlorobenzene	0.500	ND		ug/L		95	50 - 150
1,2,3-Trichloropropane	0.500	ND		ug/L		96	50 - 150
1,2,4-Trichlorobenzene	0.500	ND		ug/L		99	50 - 150
1,2,4-Trimethylbenzene	0.500	ND		ug/L		91	50 - 150
1,2-Dibromo-3-Chloropropane	0.500	ND		ug/L		81	50 - 150
1,2-Dibromoethane	0.500	ND		ug/L		89	50 - 150
1,2-Dichlorobenzene	0.500	0.526		ug/L		105	50 - 150
1,2-Dichloroethane	0.500	ND		ug/L		97	50 - 150
1,2-Dichloropropane	0.500	ND		ug/L		97	50 - 150
1,3,5-Trimethylbenzene	0.500	ND		ug/L		91	50 - 150
1,3-Dichlorobenzene	0.500	0.518		ug/L		104	50 - 150
1,3-Dichloropropane	0.500	ND		ug/L		89	50 - 150
1,4-Dichlorobenzene	0.500	0.528		ug/L		106	50 - 150
2,2-Dichloropropane	0.500	0.672		ug/L		134	50 - 150
2-Butanone (MEK)	2.50	ND		ug/L		100	50 - 150
2-Chlorotoluene	0.500	ND		ug/L		92	50 - 150
2-Hexanone	2.50	ND		ug/L		91	50 - 150
4-Chlorotoluene	0.500	ND		ug/L		88	50 - 150
4-Isopropyltoluene	0.500	ND		ug/L		92	50 - 150
4-Methyl-2-pentanone (MIBK)	2.50	ND		ug/L		88	50 - 150
Acetone	2.50	ND		ug/L		121	50 - 150
Benzene	0.500	0.528		ug/L		106	50 - 150
Bromobenzene	0.500	ND		ug/L		99	50 - 150
Bromochloromethane	0.500	0.564		ug/L		113	50 - 150
Bromoform	0.500	ND		ug/L		91	50 - 150
Bromomethane	0.500	ND		ug/L		88	50 - 150
Carbon disulfide	0.500	0.509		ug/L		102	50 - 150
Carbon tetrachloride	0.500	ND		ug/L		87	50 - 150
Chlorobenzene	0.500	ND		ug/L		97	50 - 150
Chlorodibromomethane	0.500	ND		ug/L		94	50 - 150
Chloroethane	0.500	ND		ug/L		75	50 - 150
Chloroform	0.500	0.544		ug/L		109	50 - 150
Chloromethane	0.500	ND		ug/L		92	50 - 150
cis-1,3-Dichloropropene	0.500	ND		ug/L		87	50 - 150
Dibromomethane	0.500	ND		ug/L		88	50 - 150
Dichlorobromomethane	0.500	ND		ug/L		86	50 - 150
Dichlorodifluoromethane	0.500	ND		ug/L		90	50 - 150

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-384992/5
Matrix: Water
Analysis Batch: 384992

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.500	ND		ug/L		88	50 - 150
Hexachlorobutadiene	0.500	ND		ug/L		92	50 - 150
Isopropylbenzene	0.500	ND		ug/L		95	50 - 150
Methyl tert-butyl ether	0.500	ND		ug/L		93	50 - 150
Methylene Chloride	0.500	ND		ug/L		134	50 - 150
m-Xylene & p-Xylene	0.500	ND		ug/L		90	50 - 150
Naphthalene	0.500	ND		ug/L		87	50 - 150
n-Butylbenzene	0.500	ND		ug/L		84	50 - 150
n-Propylbenzene	0.500	ND		ug/L		88	50 - 150
o-Xylene	0.500	ND		ug/L		89	50 - 150
sec-Butylbenzene	0.500	ND		ug/L		90	50 - 150
Styrene	0.500	ND		ug/L		88	50 - 150
tert-Butylbenzene	0.500	ND		ug/L		91	50 - 150
Tetrachloroethene	0.500	0.540		ug/L		108	50 - 150
Toluene	0.500	ND		ug/L		93	50 - 150
trans-1,2-Dichloroethene	0.500	ND		ug/L		97	50 - 150
trans-1,3-Dichloropropene	0.500	ND		ug/L		78	50 - 150
Trichloroethene	0.500	0.581		ug/L		116	50 - 150
Trichlorofluoromethane	0.500	0.512		ug/L		102	50 - 150
Xylenes, Total	1.00	ND	*	ug/L		0	50 - 150

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-385486/28
Matrix: Water
Analysis Batch: 385486

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			11/03/17 15:58	1

Lab Sample ID: MB 480-385486/4
Matrix: Water
Analysis Batch: 385486

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			11/03/17 12:43	1

Lab Sample ID: LCS 480-385486/27
Matrix: Water
Analysis Batch: 385486

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.84		mg/L		102	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-385486/3
Matrix: Water
Analysis Batch: 385486

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.84		mg/L		102	90 - 110

Lab Sample ID: 480-126586-2 MS
Matrix: Water
Analysis Batch: 385486

Client Sample ID: W-171025-MB-79
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	28.9		100	128.1		mg/L		99	81 - 120

QC Association Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

GC/MS VOA

Analysis Batch: 384992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126586-1	W-171025-MB-78	Total/NA	Water	524.2	
480-126586-2	W-171025-MB-79	Total/NA	Water	524.2	
480-126586-3	W-171025-MB-80	Total/NA	Water	524.2	
480-126586-4	W-171025-MB-81	Total/NA	Water	524.2	
480-126586-5	W-171025-MB-83	Total/NA	Water	524.2	
480-126586-6	TRIP BLANK	Total/NA	Water	524.2	
MB 480-384992/6	Method Blank	Total/NA	Water	524.2	
LCS 480-384992/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 480-384992/4	Lab Control Sample Dup	Total/NA	Water	524.2	
LLCS 480-384992/5	Lab Control Sample	Total/NA	Water	524.2	

General Chemistry

Analysis Batch: 385486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126586-1	W-171025-MB-78	Total/NA	Water	300.0	
480-126586-2	W-171025-MB-79	Total/NA	Water	300.0	
480-126586-3	W-171025-MB-80	Total/NA	Water	300.0	
480-126586-4	W-171025-MB-81	Total/NA	Water	300.0	
480-126586-5	W-171025-MB-83	Total/NA	Water	300.0	
MB 480-385486/28	Method Blank	Total/NA	Water	300.0	
MB 480-385486/4	Method Blank	Total/NA	Water	300.0	
LCS 480-385486/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-385486/3	Lab Control Sample	Total/NA	Water	300.0	
480-126586-2 MS	W-171025-MB-79	Total/NA	Water	300.0	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Client Sample ID: W-171025-MB-78 — Lab Sample ID: 480-126586-1

Date Collected: 10/25/17 09:30 — **Matrix: Water**
Date Received: 10/26/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384992	11/01/17 18:23	CDC	TAL BUF
Total/NA	Analysis	300.0		1	385486	11/03/17 15:10	RJS	TAL BUF

Client Sample ID: W-171025-MB-79 — Lab Sample ID: 480-126586-2

Date Collected: 10/25/17 10:05 — **Matrix: Water**
Date Received: 10/26/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384992	11/01/17 18:53	CDC	TAL BUF
Total/NA	Analysis	300.0		2	385486	11/03/17 15:18	RJS	TAL BUF

Client Sample ID: W-171025-MB-80 — Lab Sample ID: 480-126586-3

Date Collected: 10/25/17 10:00 — **Matrix: Water**
Date Received: 10/26/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384992	11/01/17 19:23	CDC	TAL BUF
Total/NA	Analysis	300.0		1	385486	11/03/17 16:13	RJS	TAL BUF

Client Sample ID: W-171025-MB-81 — Lab Sample ID: 480-126586-4

Date Collected: 10/25/17 10:27 — **Matrix: Water**
Date Received: 10/26/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384992	11/01/17 19:52	CDC	TAL BUF
Total/NA	Analysis	300.0		2	385486	11/03/17 16:21	RJS	TAL BUF

Client Sample ID: W-171025-MB-83 — Lab Sample ID: 480-126586-5

Date Collected: 10/25/17 13:50 — **Matrix: Water**
Date Received: 10/26/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384992	11/01/17 20:23	CDC	TAL BUF
Total/NA	Analysis	300.0		1	385486	11/03/17 16:29	RJS	TAL BUF

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-126586-6

Date Collected: 10/25/17 00:00 — **Matrix: Water**
Date Received: 10/26/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	384992	11/01/17 20:53	CDC	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Minnesota	NELAP	5	036-999-337	12-31-17

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
524.2		Water	Dibromomethane
524.2		Water	Naphthalene

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
524.2		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
524.2		Water	1,2-Dibromo-3-Chloropropane
524.2		Water	1,2-Dibromoethane
524.2		Water	1,3-Dichloropropane
524.2		Water	2-Butanone (MEK)
524.2		Water	2-Hexanone
524.2		Water	4-Isopropyltoluene
524.2		Water	4-Methyl-2-pentanone (MIBK)
524.2		Water	Acetone
524.2		Water	Acrylonitrile
524.2		Water	Allyl chloride
524.2		Water	Carbon disulfide
524.2		Water	Dichlorofluoromethane
524.2		Water	Ethyl ether
524.2		Water	Iodomethane
524.2		Water	m-Xylene & p-Xylene
524.2		Water	o-Xylene
524.2		Water	t-Butanol
524.2		Water	trans-1,4-Dichloro-2-butene
524.2		Water	Vinyl acetate

Method Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-126586-1	W-171025-MB-78	Water	10/25/17 09:30	10/26/17 10:00
480-126586-2	W-171025-MB-79	Water	10/25/17 10:05	10/26/17 10:00
480-126586-3	W-171025-MB-80	Water	10/25/17 10:00	10/26/17 10:00
480-126586-4	W-171025-MB-81	Water	10/25/17 10:27	10/26/17 10:00
480-126586-5	W-171025-MB-83	Water	10/25/17 13:50	10/26/17 10:00
480-126586-6	TRIP BLANK	Water	10/25/17 00:00	10/26/17 10:00

Quantitation Limit Exceptions Summary

Client: GHD Services Inc.
Project/Site: 002012, Highway 96 Landfill

TestAmerica Job ID: 480-126586-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
524.2	Water	Trichloroethene	ug/L	0.20	0.5
524.2	Water	Vinyl chloride	ug/L	0.20	0.5

6HD - ST. PAUL

~~CONESTOGA-ROVERS~~ & ASSOCIATES

CHAIN OF CUSTODY RECORD

1801 Old Highway 8 Northwest, Suite 114
St. Paul, Minnesota 55112 United States
Phone: (651) 639-0913 Fax: (651) 639-0923

COC NO.: SP- 02505

PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 2012-HWY 96 SITE	Laboratory Name: TA-BUFFALO	Lab Location:	SSOW ID:
Project Name:	Lab Contact:	Lab Quote No: *	Cooler No:
Project Location: WHITE BEAR TOWNSHIP, MN			Carrier:
Chemistry Contact: GRANT ANDERSON			Airbill No:
Sampler(s): S. ROSTE / S. ILLI			Date Shipped: 10/25/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOCs (524.2)	CHLORIDE	VC, CIZDCE, 11DCA*							MS/MSD Request	Comments/ Special Instructions:
1	W-171025-MB-78	102517	0930	WG			X							4	X	X	X								
2	W-171025-MB-79	102517	1005	WG			X							4	X	X	X								
3	W-171025-MB-80	102517	10:00	WG			X							4	X	X	X								
4	W-171025-MB-81	102517	1027	WG			X							4	X	X	X								
5	W-171025-MB-82	102517	1350	WG			X							4	X	X	X								
6	TRIP BLANK	102517		WG			X							2	X		X								
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 22

All Samples in Cooler must be on COC

Notes/ Special Requirements:
*VC, CIZDCE, 11DCA → REPORT TO MDL

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. [signature]	6HD	10/25/17	18:00	1. [signature]	—	10/26/17	1020
2.				2.			
3.				3.	3.5 - #1		

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

480-126586 COC

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-126586-1

Login Number: 126586

List Number: 1

Creator: Janish, Carl M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GHD
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	False	NA: Check done at department level as required

Attachment B
Data Quality Assessment and Validation Memorandum

Memorandum

December 1, 2017

To:	Sarah Illi, GHD	Ref. No.:	002012
From:	Grant Anderson/sb/24	Tel:	651-639-0913

Subject: **Analytical Results and Reduced Validation**
Highway 96 Site
Residential Well Sampling
North Oaks, Minnesota
October 2017

1. Introduction

The following document details a reduced validation of analytical results for residential well samples collected in support of the residential well sampling event at the Highway 96 Site in October 2017. Samples were submitted to TestAmerica Laboratories, Inc. (TestAmerica), located in Buffalo, New York. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD Services Inc. (GHD) report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spikes (MS), and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "National Functional Guidelines for Superfund Organic Methods Data Review", United States Environmental Protection Agency (USEPA) EPA-540-R-2016-002, September 2016

ii) "National Functional Guidelines for Inorganic Superfund Methods Data Review", USEPA EPA-540-R-2016-001, September 2016

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

Laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed per the "Guidelines" and were within laboratory control limits, indicating individual sample performance was adequate.

5. Laboratory Control Sample Analyses

LCS and/or laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Organic Analyses

The LCS/LCSD contained all compounds of interest. LCS/LCSD and RPDs were assessed for the “Guidelines”. All LCS/LCSD recoveries and RPDs were within the laboratory control limits, or yielded high recoveries that did not warrant qualification of non-detect data, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses

The LCS/LCSD contained all analytes of interest. LCS/LCSD and RPDs were assessed per the "Guidelines" and were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision. If the original investigative sample result for any analyte is significantly greater than the associated spike concentration, the recovery and RPD for that analyte are not assessed.

MS/MSD analyses were performed as specified in Table 1. The laboratory performed additional site-specific MS/MSD analyses internally.

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. The percent recoveries and RPD values were evaluated using the "Guidelines".

With the exception of chloroethane, bromomethane, and styrene, the MS/MSD recoveries and RPD values were within acceptance criteria. Table 4 lists outlying MS/MSD results. Associated sample data are qualified as noted in Table 2.

Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

7. Field QA/QC Samples

The field QA/QC consisted of two trip blank samples (VOCs), eight field blank samples (per parameter), and seven field duplicate sample sets (per parameter).

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, two trip blank samples were submitted to the laboratory for VOC analysis, as identified in Table 1. The trip blanks were reported to be non-detect for the compounds of interest.

Field Blank Sample Analysis

To assess ambient conditions at the Site, eight field blanks per parameter were submitted for analysis, as identified in Table 1. The field blanks were reported to be free from detectable concentrations of target VOC

analytes. Chloride was detected in one of the field blanks. However, the chloride result in the associated sample was significantly high enough that qualification of data was not necessary.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, seven field duplicate sample sets per parameter were submitted "blind" to the laboratory, as specified in Table 1.

If both sample results associated with the field duplicate sample set are detects greater than five times the reporting limit (RL), the RPD must be less than 50 percent. If one of the sample results associated with the field duplicate sample set is non-detect, the RPD must be less than 50 percent (using the RL in place of the non-detect result to calculate the RPD). If any reported concentration in the field duplicate sample set is between one times the RL and five times the RL, the difference between the results must be less than one times the RL value (using the RL in place of the non-detect result to calculate the difference). If any reported concentration in the field duplicate sample set is less than the RL, the difference between the results must be less than one times the method detection limit (MDL) value (using the MDL in place of the non-detect result to calculate the difference).

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8. Analyte Reporting

VOCs (524.2)

TestAmerica - Buffalo reported detected results down to the laboratory's MDL for a select list of VOC analytes, as approved by the Minnesota Pollution Control Agency (MPCA). This list includes: 1,1-dichloroethane, cis-1,2-dichloroethene and vinyl chloride. Positive analyte detections less than the quantitation limit (i.e., RL) but greater than the MDL were qualified as estimated (J) unless qualified otherwise in this memorandum. The remaining VOC analytes were reported down to the laboratory RL. Non-detect results were presented as non-detect at the laboratory RL.

Chloride (300.0)

TestAmerica - Buffalo reported detected results down to the laboratory RL. Non-detect results were presented as non-detect at the laboratory RL.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters	Comments
W-171016-MB-01	1WSHORE	water	10/16/2017	14:30:00	VOC (524.2), chloride	
W-171016-MB-02	2CARDINAL	water	10/16/2017	15:00:00	VOC (524.2), chloride	
W-171016-MB-03	4GADWALL	water	10/16/2017	15:25:00	VOC (524.2), chloride	
W-171016-MB-04	3MALRDLN	water	10/16/2017	15:52:00	VOC (524.2), chloride	
W-171017-MB-05	8POPLLN	water	10/17/2017	09:54:00	VOC (524.2), chloride	
W-171017-MB-06	8POPLLN	water	10/17/2017	09:55:00	VOC (524.2), chloride	Duplicate (MB-05)
W-171017-MB-07	6POPLLN	water	10/17/2017	10:00:00	VOC (524.2), chloride	
W-171017-MB-08	4POPLLN	water	10/17/2017	10:06:00	VOC (524.2), chloride	
W-171017-MB-09	4POPLLN	water	10/17/2017	10:08:00	VOC (524.2), chloride	Field Blank
W-171017-MB-10	1POPLLN	water	10/17/2017	10:36:00	VOC (524.2), chloride	
W-171017-MB-11	3POPLLN	water	10/17/2017	10:40:00	VOC (524.2), chloride	MS/MSD
W-171017-MB-12	35ROBFRD	water	10/17/2017	11:15:00	VOC (524.2), chloride	
W-171017-MB-13	37ROBFRD	water	10/17/2017	11:20:00	VOC (524.2), chloride	
W-171017-MB-14	37ROBFRD	water	10/17/2017	11:21:00	VOC (524.2), chloride	Duplicate (MB-13)
W-171017-MB-15	41ROBFRD	water	10/17/2017	11:25:00	VOC (524.2), chloride	
W-171017-MB-16	41ROBFRD	water	10/17/2017	11:27:00	VOC (524.2), chloride	Field Blank
W-171017-MB-17	43ROBFRD	water	10/17/2017	12:18:00	VOC (524.2), chloride	
W-171017-MB-18	45ROBFRD	water	10/17/2017	12:23:00	VOC (524.2), chloride	
W-171017-MB-19	4WSHORE	water	10/17/2017	12:31:00	VOC (524.2), chloride	
W-171017-MB-20	3WSHORE	water	10/17/2017	12:57:00	VOC (524.2), chloride	
W-171017-MB-21	5WSHORE	water	10/17/2017	13:04:00	VOC (524.2), chloride	
W-171017-MB-22	6WSHORE	water	10/17/2017	13:09:00	VOC (524.2), chloride	
W-171017-MB-23	8WSHORE	water	10/17/2017	13:47:00	VOC (524.2), chloride	
W-171017-MB-24	9WSHORE	water	10/17/2017	13:51:00	VOC (524.2), chloride	
W-171017-MB-25	11WSHORE	water	10/17/2017	13:58:00	VOC (524.2), chloride	
W-171017-MB-26	11WSHORE	water	10/17/2017	14:00:00	VOC (524.2), chloride	Duplicate (MB-25)
W-171017-MB-27	10WSHORE	water	10/17/2017	14:32:00	VOC (524.2), chloride	
W-171017-MB-28	15WSHORE	water	10/17/2017	14:39:00	VOC (524.2), chloride	
W-171017-MB-29	15WSHORE	water	10/17/2017	14:41:00	VOC (524.2), chloride	Field Blank
W-171017-MB-30	44EOAK	water	10/17/2017	14:47:00	VOC (524.2), chloride	MS/MSD

Table 1

Sample Collection and Analysis Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters	Comments
W-171018-MB-31	2WSHORE	water	10/18/2017	08:59:00	VOC (524.2), chloride	
W-171018-MB-32	2HERONLNN	water	10/18/2017	09:03:00	VOC (524.2), chloride	
W-171018-MB-33	2BIRCHLN	water	10/18/2017	09:35:00	VOC (524.2), chloride	
W-171018-MB-34	3BIRCHLN	water	10/18/2017	09:40:00	VOC (524.2), chloride	
W-171018-MB-35	1BIRCHLN	water	10/18/2017	09:44:00	VOC (524.2), chloride	
W-171018-MB-36	3THOMPSNLN	water	10/18/2017	10:14:00	VOC (524.2), chloride	
W-171018-MB-37	3THOMPSNLN	water	10/18/2017	10:15:00	VOC (524.2), chloride	Duplicate (MB-36)
W-171018-MB-38	1QUAILLN	water	10/18/2017	10:20:00	VOC (524.2), chloride	
W-171018-MB-39	1QUAILLN	water	10/18/2017	10:22:00	VOC (524.2), chloride	Field Blank
W-171018-MB-40	50EOAK	water	10/18/2017	10:25:00	VOC (524.2), chloride	
W-171018-MB-41	6SKILN	water	10/18/2017	10:56:00	VOC (524.2), chloride	
W-171018-MB-42	8SKILN	water	10/18/2017	11:02:00	VOC (524.2), chloride	
W-171018-MB-43	10SKILN	water	10/18/2017	11:06:00	VOC (524.2), chloride	
W-171018-MB-44	12SKILN	water	10/18/2017	11:30:00	VOC (524.2), chloride	
W-171018-MB-45	14SKILN	water	10/18/2017	11:36:00	VOC (524.2), chloride	
W-171018-MB-46	16SKILN	water	10/18/2017	11:41:00	VOC (524.2), chloride	
W-171018-MB-47	3BUFFALO	water	10/18/2017	12:45:00	VOC (524.2), chloride	
W-171018-MB-48	2EAGLERDG	water	10/18/2017	12:50:00	VOC (524.2), chloride	
W-171018-MB-49	1EAGLERDG	water	10/18/2017	12:55:00	VOC (524.2), chloride	
W-171018-MB-50	1EAGLERDG	water	10/18/2017	12:56:00	VOC (524.2), chloride	Duplicate (MB-49)
W-171018-MB-51	3EAGLERDG	water	10/18/2017	13:20:00	VOC (524.2), chloride	
W-171018-MB-52	3EAGLERDG	water	10/18/2017	13:22:00	VOC (524.2), chloride	Field Blank
W-171018-MB-53	4EAGLERDG	water	10/18/2017	13:27:00	VOC (524.2), chloride	
W-171018-MB-54	6EAGLERDG	water	10/18/2017	13:31:00	VOC (524.2), chloride	MS/MSD
W-171018-MB-55	10EAGLERDG	water	10/18/2017	14:12:00	VOC (524.2), chloride	
W-171018-MB-56	36EOAK	water	10/18/2017	14:19:00	VOC (524.2), chloride	
W-171018-MB-57	32EOAK	water	10/18/2017	14:22:00	VOC (524.2), chloride	
W-171019-MB-58	7WSHORE	water	10/19/2017	08:04:00	VOC (524.2), chloride	
W-171019-MB-59	3GADWALL	water	10/19/2017	08:40:00	VOC (524.2), chloride	
W-171019-MB-60	1GADWALL	water	10/19/2017	08:45:00	VOC (524.2), chloride	

Table 1

Sample Collection and Analysis Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters	Comments
W-171019-MB-61	2GADWALL	water	10/19/2017	08:49:00	VOC (524.2), chloride	
W-171019-MB-62	2GADWALL	water	10/19/2017	08:50:00	VOC (524.2), chloride	Duplicate (MB-61)
W-171019-MB-63	28DUCKPR	water	10/19/2017	09:20:00	VOC (524.2), chloride	
W-171019-MB-64	28DUCKPR	water	10/19/2017	09:22:00	VOC (524.2), chloride	Field Blank
W-171019-MB-65	26DUCKPR	water	10/19/2017	09:45:00	VOC (524.2), chloride	
W-171019-MB-66	20DUCKPR	water	10/19/2017	09:55:00	VOC (524.2), chloride	
W-171019-MB-67	9DUCKPR	water	10/19/2017	10:00:00	VOC (524.2), chloride	
W-171019-MB-68	6MALRDLN	water	10/19/2017	10:28:00	VOC (524.2), chloride	
W-171019-MB-69	1ROBFRD	water	10/19/2017	10:35:00	VOC (524.2), chloride	
W-171019-MB-70	1THOMPSNLN	water	10/19/2017	12:04:00	VOC (524.2), chloride	
W-171019-MB-71	1BUFFALO	water	10/19/2017	12:40:00	VOC (524.2), chloride	
W-171019-MB-72	4CARDINAL	water	10/19/2017	12:45:00	VOC (524.2), chloride	
W-171019-MB-73	15DUCKPR	water	10/19/2017	13:05:00	VOC (524.2), chloride	MS/MSD
W-171019-MB-74	15DUCKPR	water	10/19/2017	13:06:00	VOC (524.2), chloride	Duplicate (MB-73)
W-171019-MB-75	7MALRDLN	water	10/19/2017	13:30:00	VOC (524.2), chloride	
W-171019-MB-76	5MALRDLN	water	10/19/2017	13:35:00	VOC (524.2), chloride	
W-171019-MB-77	5MALRDLN	water	10/19/2017	13:37:00	VOC (524.2), chloride	Field Blank
W-171025-MB-78	38EOAK	water	10/25/2017	09:30:00	VOC (524.2), chloride	
W-171025-MB-79	44ROBFRD	water	10/25/2017	10:05:00	VOC (524.2), chloride	
W-171025-MB-80	44ROBFRD	water	10/25/2017	10:00:00	VOC (524.2), chloride	Field Blank
W-171025-MB-81	1HUMMBIRD	water	10/25/2017	10:27:00	VOC (524.2), chloride	
W-171025-MB-83	24DUCKPR	water	10/25/2017	13:50:00	VOC (524.2), chloride	
TRIP BLANK	Lab	water	10/19/2017	00:00:00	VOC (524.2)	Trip Blank
TRIP BLANK	Lab	water	10/25/2017	00:00:00	VOC (524.2)	Trip Blank

Note:

MS/MSD - Matrix Spike/Matrix Spike Duplicate

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		1BIRCHLN	1BUFFALO	1EAGLERDG	1EAGLERDG	1GADWALL	1HUMMBIRD	1POPLLN
Sample Name:		W-171018-MB-35	W-171019-MB-71	W-171018-MB-49	W-171018-MB-50	W-171019-MB-60	W-171025-MB-81	W-171017-MB-10
Sample Date:		10/18/2017	10/19/2017	10/18/2017	10/18/2017	10/19/2017	10/25/2017	10/17/2017
					Duplicate			
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	0.50 U	0.28 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3,5-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		1BIRCHLN	1BUFFALO	1EAGLERDG	1EAGLERDG	1GADWALL	1HUMMBIRD	1POPLLN
Sample Name:		W-171018-MB-35	W-171019-MB-71	W-171018-MB-49	W-171018-MB-50	W-171019-MB-60	W-171025-MB-81	W-171017-MB-10
Sample Date:		10/18/2017	10/19/2017	10/18/2017	10/18/2017	10/19/2017	10/25/2017	10/17/2017
					Duplicate			
Parameters	**Unit**							
Volatile Organic Compounds								
Bromomethane (Methyl bromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane (Methyl chloride)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cymene (p-Isopropyltoluene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorofluoromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl ether	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Iodomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropyl benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m&p-Xylenes	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
N-Propylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butyl alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tert-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**1BIRCHLN**	**1BUFFALO**	**1EAGLERDG**	**1EAGLERDG**	**1GADWALL**	**1HUMMBIRD**	**1POPLLN**
	Sample Name:	**W-171018-MB-35**	**W-171019-MB-71**	**W-171018-MB-49**	**W-171018-MB-50**	**W-171019-MB-60**	**W-171025-MB-81**	**W-171017-MB-10**
	Sample Date:	**10/18/2017**	**10/19/2017**	**10/18/2017**	**10/18/2017**	**10/19/2017**	**10/25/2017**	**10/17/2017**
					Duplicate			
Parameters	**Unit**							
Volatile Organic Compounds								
trans-1,4-Dichloro-2-butene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trihalomethanes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl acetate	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
General Chemistry								
Chloride	mg/L	7.4	31.5	19.1	19.1	32.8	28.0	1.3

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		1QUAILLN	1QUAILLN	1ROBFRD	1THOMPSNLN	1WSHORE	2BIRCHLN	2CARDINAL
Sample Name:		W-171018-MB-38	W-171018-MB-39	W-171019-MB-69	W-171019-MB-70	W-171016-MB-01	W-171018-MB-33	W-171016-MB-02
Sample Date:		10/18/2017	10/18/2017	10/19/2017	10/19/2017	10/16/2017	10/18/2017	10/16/2017
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3,5-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		1QUAILLN	1QUAILLN	1ROBFRD	1THOMPSNLN	1WSHORE	2BIRCHLN	2CARDINAL
Sample Name:		W-171018-MB-38	W-171018-MB-39	W-171019-MB-69	W-171019-MB-70	W-171016-MB-01	W-171018-MB-33	W-171016-MB-02
Sample Date:		10/18/2017	10/18/2017	10/19/2017	10/19/2017	10/16/2017	10/18/2017	10/16/2017
Parameters	**Unit**							
Volatile Organic Compounds								
Bromomethane (Methyl bromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane (Methyl chloride)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cymene (p-Isopropyltoluene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorofluoromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl ether	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Iodomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropyl benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m&p-Xylenes	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
N-Propylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butyl alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tert-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**1QUAILLN**	**1QUAILLN**	**1ROBFRD**	**1THOMPSNLN**	**1WSHORE**	**2BIRCHLN**	**2CARDINAL**
	Sample Name:	**W-171018-MB-38**	**W-171018-MB-39**	**W-171019-MB-69**	**W-171019-MB-70**	**W-171016-MB-01**	**W-171018-MB-33**	**W-171016-MB-02**
	Sample Date:	**10/18/2017**	**10/18/2017**	**10/19/2017**	**10/19/2017**	**10/16/2017**	**10/18/2017**	**10/16/2017**
Parameters	**Unit**							
Volatile Organic Compounds								
trans-1,4-Dichloro-2-butene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trihalomethanes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl acetate	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
General Chemistry								
Chloride	mg/L	27.0	0.50 U	1.2	32.8	38.6	14.3	26.1

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		2EAGLERDG	2GADWALL	2GADWALL	2HERONLNN	2WSHORE	3BIRCHLN	3BUFFALO
Sample Name:		W-171018-MB-48	W-171019-MB-61	W-171019-MB-62	W-171018-MB-32	W-171018-MB-31	W-171018-MB-34	W-171018-MB-47
Sample Date:		10/18/2017	10/19/2017	10/19/2017	10/18/2017	10/18/2017	10/18/2017	10/18/2017
				Duplicate				
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.19 J
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3,5-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		2EAGLERDG	2GADWALL	2GADWALL	2HERONLNN	2WSHORE	3BIRCHLN	3BUFFALO
Sample Name:		W-171018-MB-48	W-171019-MB-61	W-171019-MB-62	W-171018-MB-32	W-171018-MB-31	W-171018-MB-34	W-171018-MB-47
Sample Date:		10/18/2017	10/19/2017	10/19/2017	10/18/2017	10/18/2017	10/18/2017	10/18/2017
				Duplicate				
Parameters	**Unit**							
Volatile Organic Compounds								
Bromomethane (Methyl bromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane (Methyl chloride)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cymene (p-Isopropyltoluene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorofluoromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl ether	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Iodomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropyl benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m&p-Xylenes	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
N-Propylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butyl alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tert-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**2EAGLERDG**	**2GADWALL**	**2GADWALL**	**2HERONLNN**	**2WSHORE**	**3BIRCHLN**	**3BUFFALO**
	Sample Name:	**W-171018-MB-48**	**W-171019-MB-61**	**W-171019-MB-62**	**W-171018-MB-32**	**W-171018-MB-31**	**W-171018-MB-34**	**W-171018-MB-47**
	Sample Date:	**10/18/2017**	**10/19/2017**	**10/19/2017**	**10/18/2017**	**10/18/2017**	**10/18/2017**	**10/18/2017**
				Duplicate				
Parameters	**Unit**							
Volatile Organic Compounds								
trans-1,4-Dichloro-2-butene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trihalomethanes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl acetate	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
General Chemistry								
Chloride	mg/L	33.3	29.7	29.7	17.0	54.0	6.9	36.5

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		3EAGLERDG	3GADWALL	3MALRDLN	3POPLLN	3THOMPSNLN	3THOMPSNLN	3WSHORE
Sample Name:		W-171018-MB-51	W-171019-MB-59	W-171016-MB-04	W-171017-MB-11	W-171018-MB-36	W-171018-MB-37	W-171017-MB-20
Sample Date:		10/18/2017	10/19/2017	10/16/2017	10/17/2017	10/18/2017	10/18/2017	10/17/2017
							Duplicate	
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3,5-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		3EAGLERDG	3GADWALL	3MALRDLN	3POPLLN	3THOMPSNLN	3THOMPSNLN	3WSHORE
Sample Name:		W-171018-MB-51	W-171019-MB-59	W-171016-MB-04	W-171017-MB-11	W-171018-MB-36	W-171018-MB-37	W-171017-MB-20
Sample Date:		10/18/2017	10/19/2017	10/16/2017	10/17/2017	10/18/2017	10/18/2017	10/17/2017
							Duplicate	
Parameters	**Unit**							
Volatile Organic Compounds								
Bromomethane (Methyl bromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane (Methyl chloride)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cymene (p-Isopropyltoluene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorofluoromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl ether	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Iodomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropyl benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m&p-Xylenes	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
N-Propylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butyl alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tert-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**3EAGLERDG**	**3GADWALL**	**3MALRDLN**	**3POPLLN**	**3THOMPSNLN**	**3THOMPSNLN**	**3WSHORE**
	Sample Name:	**W-171018-MB-51**	**W-171019-MB-59**	**W-171016-MB-04**	**W-171017-MB-11**	**W-171018-MB-36**	**W-171018-MB-37**	**W-171017-MB-20**
	Sample Date:	**10/18/2017**	**10/19/2017**	**10/16/2017**	**10/17/2017**	**10/18/2017**	**10/18/2017**	**10/17/2017**
							Duplicate	
Parameters	**Unit**							
Volatile Organic Compounds								
trans-1,4-Dichloro-2-butene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trihalomethanes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl acetate	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
General Chemistry								
Chloride	mg/L	31.2	25.6	15.4	25.5	20.7	20.7	12.4

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		4CARDINAL	4EAGLERDG	4GADWALL	4POPLLN	4POPLLN	4WSHORE	5MALRDLN
Sample Name:		W-171019-MB-72	W-171018-MB-53	W-171016-MB-03	W-171017-MB-08	W-171017-MB-09	W-171017-MB-19	W-171019-MB-76
Sample Date:		10/19/2017	10/18/2017	10/16/2017	10/17/2017	10/17/2017	10/17/2017	10/19/2017
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3,5-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**4CARDINAL**	**4EAGLERDG**	**4GADWALL**	**4POPLLN**	**4POPLLN**	**4WSHORE**	**5MALRDLN**
	Sample Name:	**W-171019-MB-72**	**W-171018-MB-53**	**W-171016-MB-03**	**W-171017-MB-08**	**W-171017-MB-09**	**W-171017-MB-19**	**W-171019-MB-76**
	Sample Date:	**10/19/2017**	**10/18/2017**	**10/16/2017**	**10/17/2017**	**10/17/2017**	**10/17/2017**	**10/19/2017**
Parameters	**Unit**							
Volatile Organic Compounds								
Bromomethane (Methyl bromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane (Methyl chloride)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cymene (p-Isopropyltoluene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorofluoromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl ether	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Iodomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropyl benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m&p-Xylenes	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
N-Propylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butyl alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tert-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**4CARDINAL**	**4EAGLERDG**	**4GADWALL**	**4POPLLN**	**4POPLLN**	**4WSHORE**	**5MALRDLN**
	Sample Name:	**W-171019-MB-72**	**W-171018-MB-53**	**W-171016-MB-03**	**W-171017-MB-08**	**W-171017-MB-09**	**W-171017-MB-19**	**W-171019-MB-76**
	Sample Date:	**10/19/2017**	**10/18/2017**	**10/16/2017**	**10/17/2017**	**10/17/2017**	**10/17/2017**	**10/19/2017**
Parameters	**Unit**							
Volatile Organic Compounds								
trans-1,4-Dichloro-2-butene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trihalomethanes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl acetate	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
General Chemistry								
Chloride	mg/L	0.50	28.2	38.2	23.6	0.50 U	50.8	4.5

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		5MALRDLN	5WSHORE	6EAGLERDG	6MALRDLN	6POPLLN	6SKILN	6WSHORE
Sample Name:		W-171019-MB-77	W-171017-MB-21	W-171018-MB-54	W-171019-MB-68	W-171017-MB-07	W-171018-MB-41	W-171017-MB-22
Sample Date:		10/19/2017	10/17/2017	10/18/2017	10/19/2017	10/17/2017	10/18/2017	10/17/2017
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3,5-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		5MALRDLN	5WSHORE	6EAGLERDG	6MALRDLN	6POPLLN	6SKILN	6WSHORE
Sample Name:		W-171019-MB-77	W-171017-MB-21	W-171018-MB-54	W-171019-MB-68	W-171017-MB-07	W-171018-MB-41	W-171017-MB-22
Sample Date:		10/19/2017	10/17/2017	10/18/2017	10/19/2017	10/17/2017	10/18/2017	10/17/2017
Parameters	**Unit**							
Volatile Organic Compounds								
Bromomethane (Methyl bromide)	µg/L	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	µg/L	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane (Methyl chloride)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cymene (p-Isopropyltoluene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorofluoromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl ether	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Iodomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropyl benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m&p-Xylenes	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
N-Propylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	µg/L	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butyl alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tert-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**5MALRDLN**	**5WSHORE**	**6EAGLERDG**	**6MALRDLN**	**6POPLLN**	**6SKILN**	**6WSHORE**
	Sample Name:	**W-171019-MB-77**	**W-171017-MB-21**	**W-171018-MB-54**	**W-171019-MB-68**	**W-171017-MB-07**	**W-171018-MB-41**	**W-171017-MB-22**
	Sample Date:	**10/19/2017**	**10/17/2017**	**10/18/2017**	**10/19/2017**	**10/17/2017**	**10/18/2017**	**10/17/2017**
Parameters	**Unit**							
Volatile Organic Compounds								
trans-1,4-Dichloro-2-butene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trihalomethanes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl acetate	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
General Chemistry								
Chloride	mg/L	0.50 U	8.4	45.5	3.8	5.3	28.6	6.5

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		7MALRDLN	7WSHORE	8POPLLN	8POPLLN	8SKILN	8WSHORE	9DUCKPR
Sample Name:		W-171019-MB-75	W-171019-MB-58	W-171017-MB-05	W-171017-MB-06	W-171018-MB-42	W-171017-MB-23	W-171019-MB-67
Sample Date:		10/19/2017	10/19/2017	10/17/2017	10/17/2017	10/18/2017	10/17/2017	10/19/2017
					Duplicate			
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.67
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3,5-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		7MALRDLN	7WSHORE	8POPLLN	8POPLLN	8SKILN	8WSHORE	9DUCKPR
Sample Name:		W-171019-MB-75	W-171019-MB-58	W-171017-MB-05	W-171017-MB-06	W-171018-MB-42	W-171017-MB-23	W-171019-MB-67
Sample Date:		10/19/2017	10/19/2017	10/17/2017	10/17/2017	10/18/2017	10/17/2017	10/19/2017
					Duplicate			
Parameters	**Unit**							
Volatile Organic Compounds								
Bromomethane (Methyl bromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane (Methyl chloride)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cymene (p-Isopropyltoluene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.60
Dichlorofluoromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl ether	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Iodomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropyl benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m&p-Xylenes	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
N-Propylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butyl alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tert-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		7MALRDLN	7WSHORE	8POPLLN	8POPLLN	8SKILN	8WSHORE	9DUCKPR
Sample Name:		W-171019-MB-75	W-171019-MB-58	W-171017-MB-05	W-171017-MB-06	W-171018-MB-42	W-171017-MB-23	W-171019-MB-67
Sample Date:		10/19/2017	10/19/2017	10/17/2017	10/17/2017	10/18/2017	10/17/2017	10/19/2017
					Duplicate			
Parameters	**Unit**							
Volatile Organic Compounds								
trans-1,4-Dichloro-2-butene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trihalomethanes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl acetate	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
General Chemistry								
Chloride	mg/L	11.7	8.9	35.7	36.5	26.0	5.4	37.3

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		9WSHORE	10EAGLERDG	10SKILN	10WSHORE	11WSHORE	11WSHORE	12SKILN
Sample Name:		W-171017-MB-24	W-171018-MB-55	W-171018-MB-43	W-171017-MB-27	W-171017-MB-25	W-171017-MB-26	W-171018-MB-44
Sample Date:		10/17/2017	10/18/2017	10/18/2017	10/17/2017	10/17/2017	10/17/2017	10/18/2017
							Duplicate	
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3,5-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		9WSHORE	10EAGLERDG	10SKILN	10WSHORE	11WSHORE	11WSHORE	12SKILN
Sample Name:		W-171017-MB-24	W-171018-MB-55	W-171018-MB-43	W-171017-MB-27	W-171017-MB-25	W-171017-MB-26	W-171018-MB-44
Sample Date:		10/17/2017	10/18/2017	10/18/2017	10/17/2017	10/17/2017	10/17/2017	10/18/2017
							Duplicate	
Parameters	**Unit**							
Volatile Organic Compounds								
Bromomethane (Methyl bromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane (Methyl chloride)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cymene (p-Isopropyltoluene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorofluoromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl ether	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Iodomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropyl benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m&p-Xylenes	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
N-Propylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butyl alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tert-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**9WSHORE**	**10EAGLERDG**	**10SKILN**	**10WSHORE**	**11WSHORE**	**11WSHORE**	**12SKILN**
	Sample Name:	**W-171017-MB-24**	**W-171018-MB-55**	**W-171018-MB-43**	**W-171017-MB-27**	**W-171017-MB-25**	**W-171017-MB-26**	**W-171018-MB-44**
	Sample Date:	**10/17/2017**	**10/18/2017**	**10/18/2017**	**10/17/2017**	**10/17/2017**	**10/17/2017**	**10/18/2017**
							Duplicate	
Parameters	**Unit**							
Volatile Organic Compounds								
trans-1,4-Dichloro-2-butene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trihalomethanes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl acetate	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
General Chemistry								
Chloride	mg/L	24.0	14.8	26.3	29.1	25.3	25.2	24.6

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		14SKILN	15DUCKPR	15DUCKPR	15WSHORE	15WSHORE	16SKILN	20DUCKPR
Sample Name:		W-171018-MB-45	W-171019-MB-73	W-171019-MB-74	W-171017-MB-28	W-171017-MB-29	W-171018-MB-46	W-171019-MB-66
Sample Date:		10/18/2017	10/19/2017	10/19/2017	10/17/2017	10/17/2017	10/18/2017	10/19/2017
				Duplicate				
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.79
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3,5-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		14SKILN	15DUCKPR	15DUCKPR	15WSHORE	15WSHORE	16SKILN	20DUCKPR
Sample Name:		W-171018-MB-45	W-171019-MB-73	W-171019-MB-74	W-171017-MB-28	W-171017-MB-29	W-171018-MB-46	W-171019-MB-66
Sample Date:		10/18/2017	10/19/2017	10/19/2017	10/17/2017	10/17/2017	10/18/2017	10/19/2017
				Duplicate				
Parameters	**Unit**							
Volatile Organic Compounds								
Bromomethane (Methyl bromide)	µg/L	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	µg/L	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane (Methyl chloride)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cymene (p-Isopropyltoluene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0
Dichlorofluoromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.57
Ethyl ether	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Iodomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropyl benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m&p-Xylenes	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
N-Propylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butyl alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tert-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**14SKILN**	**15DUCKPR**	**15DUCKPR**	**15WSHORE**	**15WSHORE**	**16SKILN**	**20DUCKPR**
	Sample Name:	**W-171018-MB-45**	**W-171019-MB-73**	**W-171019-MB-74**	**W-171017-MB-28**	**W-171017-MB-29**	**W-171018-MB-46**	**W-171019-MB-66**
	Sample Date:	**10/18/2017**	**10/19/2017**	**10/19/2017**	**10/17/2017**	**10/17/2017**	**10/18/2017**	**10/19/2017**
				Duplicate				
Parameters	**Unit**							
Volatile Organic Compounds								
trans-1,4-Dichloro-2-butene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trihalomethanes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl acetate	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
General Chemistry								
Chloride	mg/L	39.6	26.3	26.4	39.2	0.50 U	26.6	41.4

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		24DUCKPR	26DUCKPR	28DUCKPR	28DUCKPR	32EOAK	35ROBFRD	36EOAK
Sample Name:		W-171025-MB-83	W-171019-MB-65	W-171019-MB-63	W-171019-MB-64	W-171018-MB-57	W-171017-MB-12	W-171018-MB-56
Sample Date:		10/25/2017	10/19/2017	10/19/2017	10/19/2017	10/18/2017	10/17/2017	10/18/2017
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3,5-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		24DUCKPR	26DUCKPR	28DUCKPR	28DUCKPR	32EOAK	35ROBFRD	36EOAK
Sample Name:		W-171025-MB-83	W-171019-MB-65	W-171019-MB-63	W-171019-MB-64	W-171018-MB-57	W-171017-MB-12	W-171018-MB-56
Sample Date:		10/25/2017	10/19/2017	10/19/2017	10/19/2017	10/18/2017	10/17/2017	10/18/2017
Parameters	**Unit**							
Volatile Organic Compounds								
Bromomethane (Methyl bromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane (Methyl chloride)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cymene (p-Isopropyltoluene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorofluoromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl ether	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Iodomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropyl benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m&p-Xylenes	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
N-Propylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butyl alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tert-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**24DUCKPR**	**26DUCKPR**	**28DUCKPR**	**28DUCKPR**	**32EOAK**	**35ROBFRD**	**36EOAK**
	Sample Name:	**W-171025-MB-83**	**W-171019-MB-65**	**W-171019-MB-63**	**W-171019-MB-64**	**W-171018-MB-57**	**W-171017-MB-12**	**W-171018-MB-56**
	Sample Date:	**10/25/2017**	**10/19/2017**	**10/19/2017**	**10/19/2017**	**10/18/2017**	**10/17/2017**	**10/18/2017**
Parameters	**Unit**							
Volatile Organic Compounds								
trans-1,4-Dichloro-2-butene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trihalomethanes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl acetate	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
General Chemistry								
Chloride	mg/L	7.2	32.2	69.2	0.50 U	32.4	58.6	23.2

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		37ROBFRD	37ROBFRD	38EOAK	41ROBFRD	41ROBFRD	43ROBFRD	44EOAK
Sample Name:		W-171017-MB-13	W-171017-MB-14	W-171025-MB-78	W-171017-MB-15	W-171017-MB-16	W-171017-MB-17	W-171017-MB-30
Sample Date:		10/17/2017	10/17/2017	10/25/2017	10/17/2017	10/17/2017	10/17/2017	10/17/2017
			Duplicate					
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3,5-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,2-Dichloropropane	µg/L	0.50 U	1.0	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Location ID:		37ROBFRD	37ROBFRD	38EOAK	41ROBFRD	41ROBFRD	43ROBFRD	44EOAK
Sample Name:		W-171017-MB-13	W-171017-MB-14	W-171025-MB-78	W-171017-MB-15	W-171017-MB-16	W-171017-MB-17	W-171017-MB-30
Sample Date:		10/17/2017	10/17/2017	10/25/2017	10/17/2017	10/17/2017	10/17/2017	10/17/2017
			Duplicate					
Parameters	**Unit**							
Volatile Organic Compounds								
Bromomethane (Methyl bromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ
Chloroform (Trichloromethane)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane (Methyl chloride)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cymene (p-Isopropyltoluene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorofluoromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl ether	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Iodomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropyl benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m&p-Xylenes	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
N-Propylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butyl alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tert-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**37ROBFRD**	**37ROBFRD**	**38EOAK**	**41ROBFRD**	**41ROBFRD**	**43ROBFRD**	**44EOAK**
	Sample Name:	**W-171017-MB-13**	**W-171017-MB-14**	**W-171025-MB-78**	**W-171017-MB-15**	**W-171017-MB-16**	**W-171017-MB-17**	**W-171017-MB-30**
	Sample Date:	**10/17/2017**	**10/17/2017**	**10/25/2017**	**10/17/2017**	**10/17/2017**	**10/17/2017**	**10/17/2017**
			Duplicate					
Parameters	**Unit**							
Volatile Organic Compounds								
trans-1,4-Dichloro-2-butene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trihalomethanes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl acetate	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
General Chemistry								
Chloride	mg/L	8.2	8.3	2.1	4.2	0.50 U	69.9	13.2

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**44ROBFRD**	**44ROBFRD**	**45ROBFRD**	**50EOAK**
	Sample Name:	**W-171025-MB-79**	**W-171025-MB-80**	**W-171017-MB-18**	**W-171018-MB-40**
	Sample Date:	**10/25/2017**	**10/25/2017**	**10/17/2017**	**10/18/2017**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3,5-Trimethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
2,2-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U
2-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U
Acrylonitrile	µg/L	10 U	10 U	10 U	10 U
Allyl chloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**44ROBFRD**	**44ROBFRD**	**45ROBFRD**	**50EOAK**
	Sample Name:	**W-171025-MB-79**	**W-171025-MB-80**	**W-171017-MB-18**	**W-171018-MB-40**
	Sample Date:	**10/25/2017**	**10/25/2017**	**10/17/2017**	**10/18/2017**
Parameters	**Unit**				
Volatile Organic Compounds					
Bromomethane (Methyl bromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane (Methyl chloride)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Cymene (p-Isopropyltoluene)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorofluoromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl ether	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Iodomethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Isopropyl benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
m&p-Xylenes	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
N-Propylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butyl alcohol	µg/L	10 U	10 U	10 U	10 U
tert-Butylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U

Table 2

Validated Analytical Results Summary
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

	Location ID:	**44ROBFRD**	**44ROBFRD**	**45ROBFRD**	**50EOAK**
	Sample Name:	**W-171025-MB-79**	**W-171025-MB-80**	**W-171017-MB-18**	**W-171018-MB-40**
	Sample Date:	**10/25/2017**	**10/25/2017**	**10/17/2017**	**10/18/2017**
Parameters	**Unit**				
Volatile Organic Compounds					
trans-1,4-Dichloro-2-butene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Trihalomethanes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl acetate	µg/L	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
General Chemistry					
Chloride	mg/L	28.9	1.8	25.8	37.5

Note:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Estimated reporting limit

Table 3

Analytical Methods and Holding Time Criteria
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

Parameter	Method	Matrix	Preservation	Holding Time: Collection to Extraction (Days)	Holding Time: Collection or Extraction to Analysis (Days)
VOC	EPA 524.2	Water	pH < 2 and Iced, 4 ± 2° C	-	14
Chloride	EPA 300.0	Water	Iced, 4 ± 2° C	-	28

Notes:

EPA 524.2 - "Methods for the Determination of Organic Compounds in Drinking Water", EPA/600/4-88/039, December 1988 and its supplements

EPA 300.0 - "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

Table 4

Qualified Sample Results Due to Outlying MS/MSD Results
Highway 96 Site
Residential Well Sampling Event
North Oaks, Minnesota
October 2017

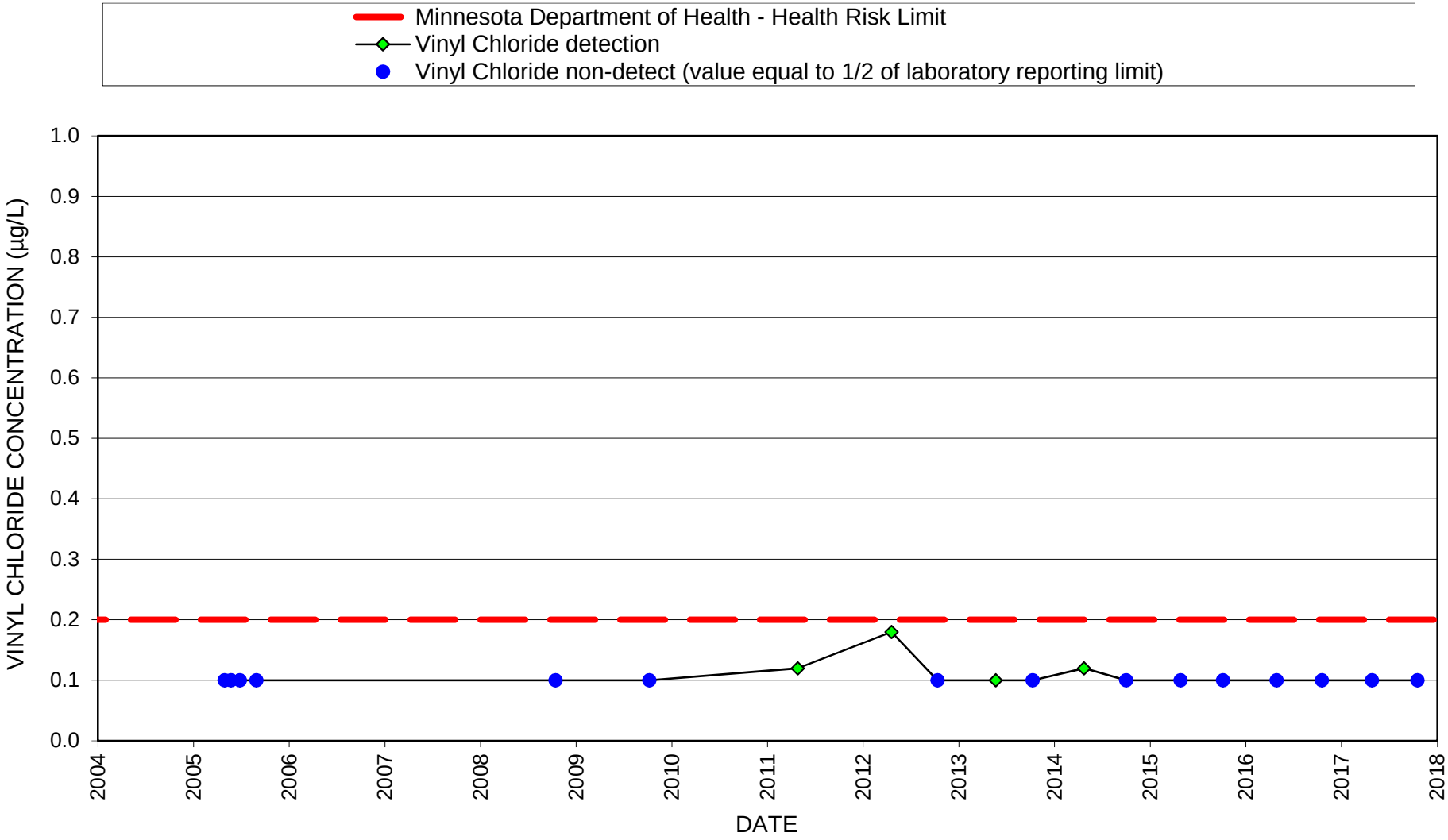
Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
VOC	W-171017-MB-30	Chloroethane	62	56	11	70-130	20	0.50 UJ	ug/L
VOC	W-171018-MB-54	Bromomethane (Methyl bromide)	48	59	20	70-130	20	0.50 UJ	ug/L
		Chloroethane	49	57	16	70-130	20	0.50 UJ	ug/L
		Styrene	65	61	7	70-130	20	0.50 UJ	ug/L
VOC	W-171019-MB-73	Bromomethane (Methyl bromide)	58	66	13	70-130	20	0.50 UJ	ug/L
		Chloroethane	43	49	13	70-130	20	0.50 UJ	ug/L

Notes:

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
UJ - Not detected; associated reporting limit is estimated

Attachment C
Updated Vinyl Chloride Graphs

VINYL CHLORIDE CONCENTRATIONS
50 EAST OAKS ROAD
NORTH OAKS, MINNESOTA



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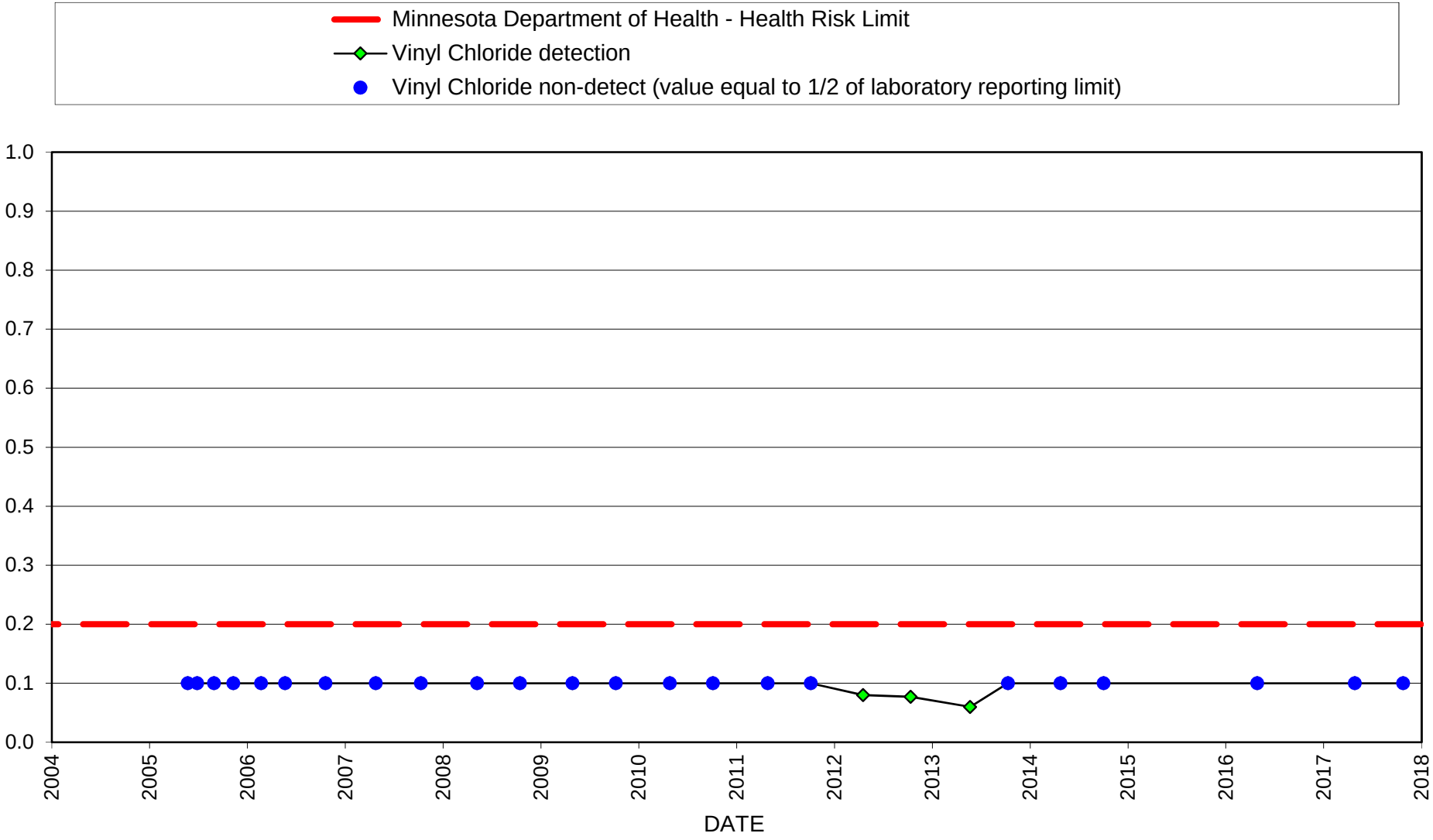
VINYL CHLORIDE CONCENTRATIONS
1 HUMMINGBIRD HILL
NORTH OAKS, MINNESOTA



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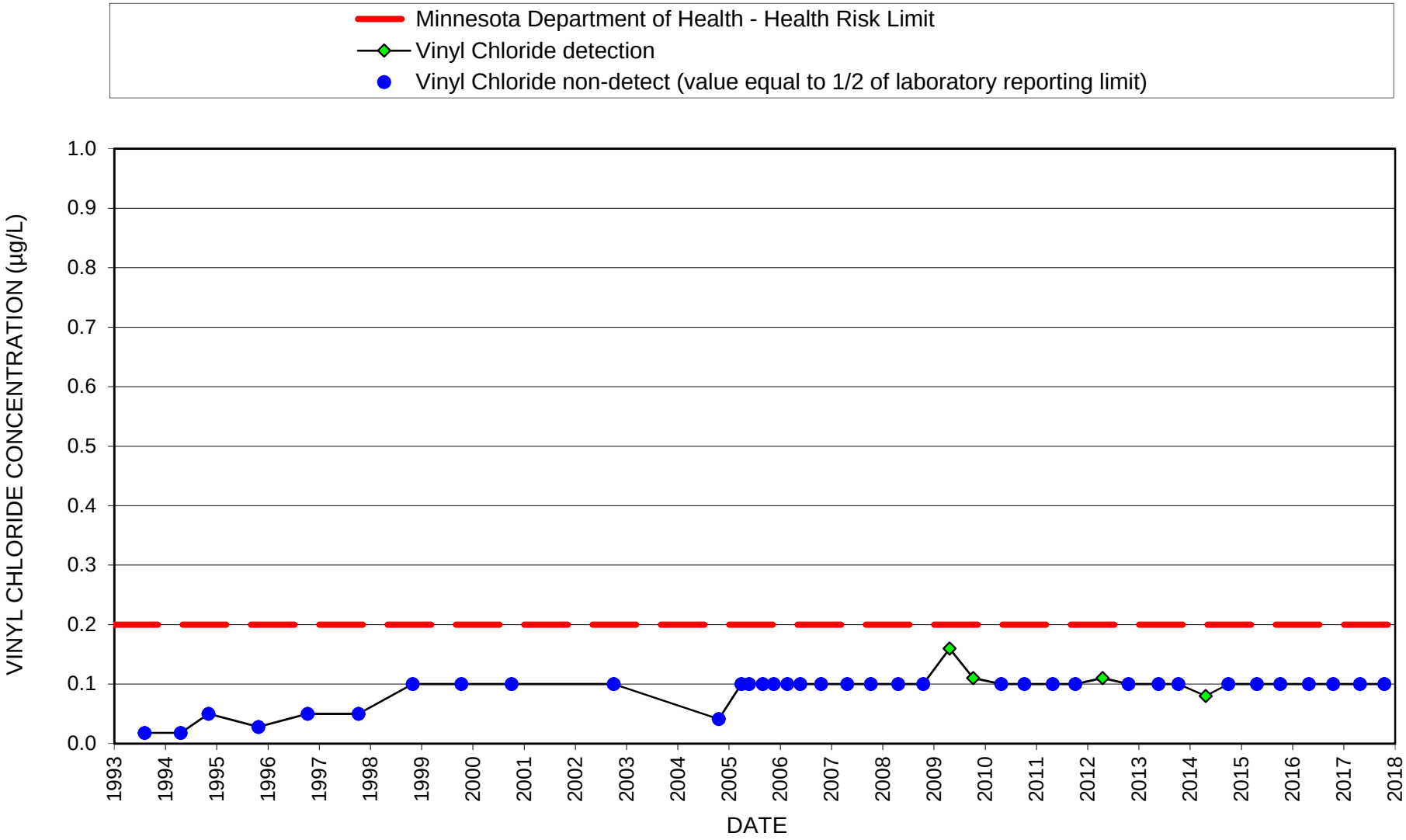
VINYL CHLORIDE CONCENTRATIONS
10 WEST SHORE ROAD
NORTH OAKS, MINNESOTA



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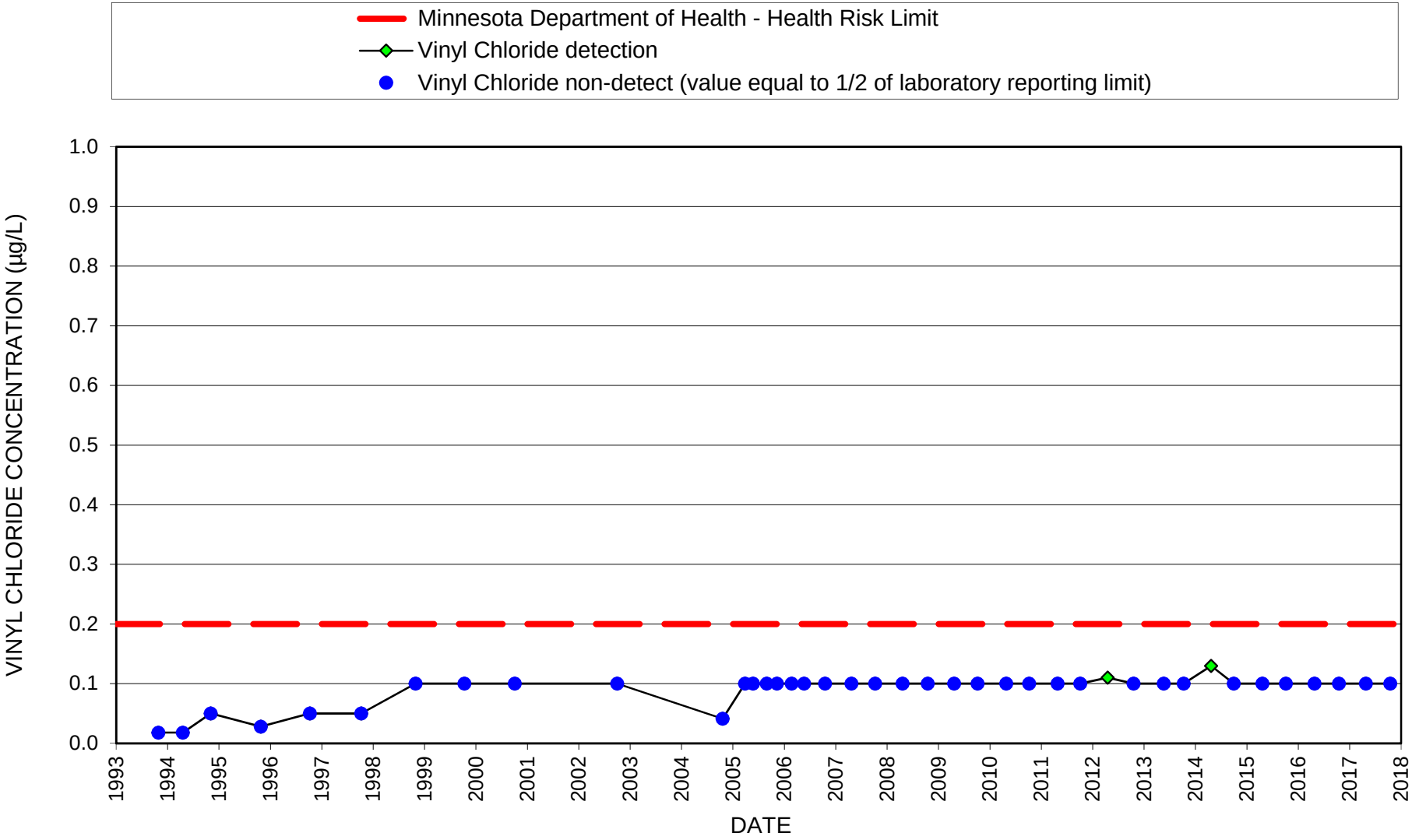
VINYL CHLORIDE CONCENTRATIONS
11 WEST SHORE ROAD
NORTH OAKS, MINNESOTA



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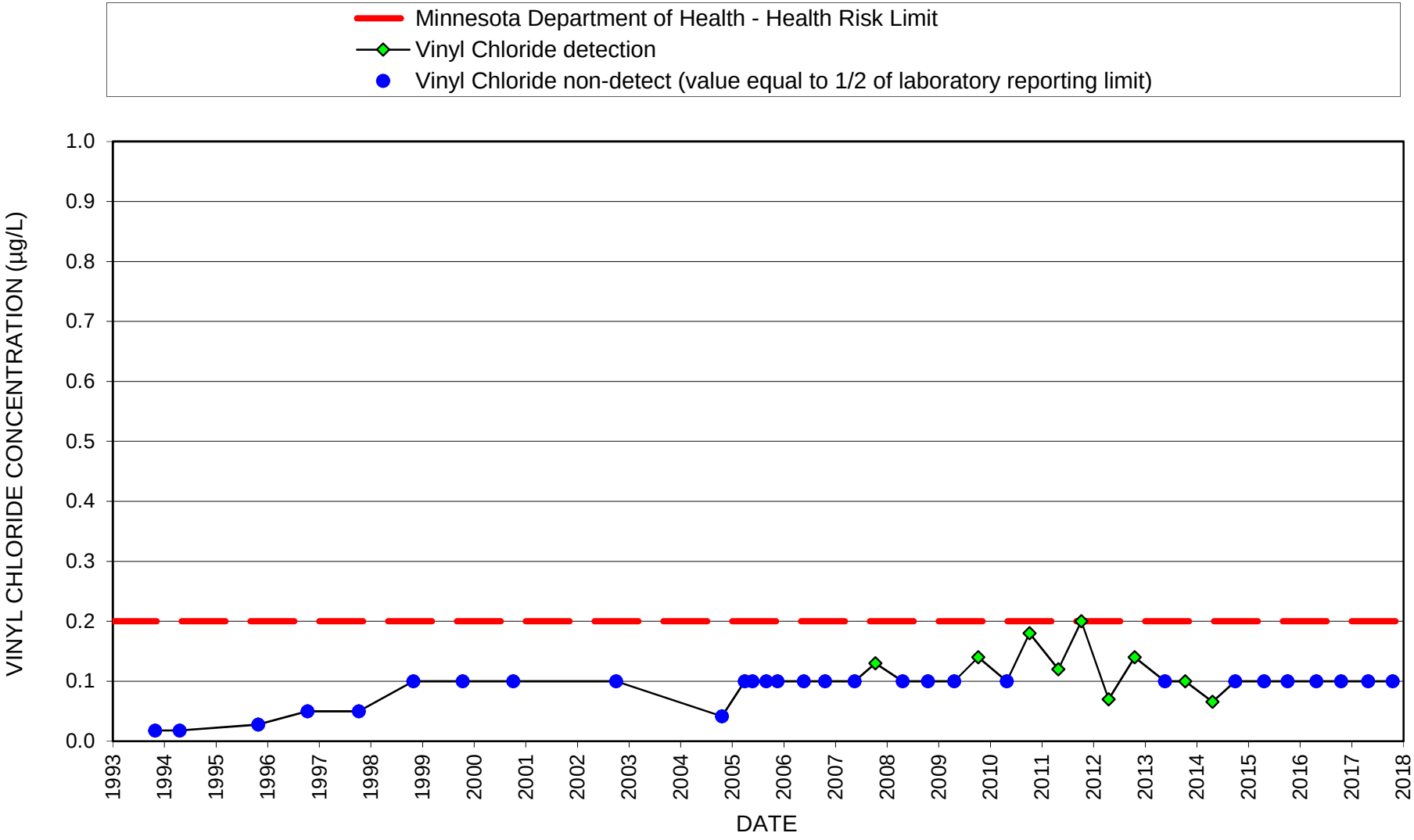
VINYL CHLORIDE CONCENTRATIONS
15 WEST SHORE ROAD
NORTH OAKS, MINNESOTA



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