



January 8, 2019

Reference No. 8614941.182

Mr. Christopher Mannes III, PE
Project Manager
NYSDEC – Region 7
615 Erie Boulevard West
Syracuse, NY 13204

Dear Mr. Mannes:

**Re: 110 Luther Avenue BCP Site (Site #C734118)
Fall 2018 Groundwater Monitoring Results**

GHD Consulting Services Inc. (GHD) has completed fall 2018 groundwater monitoring activities at the above-referenced Site. Monitoring activities included the sampling of six in-situ chemical reduction (ISCR) effectiveness monitoring wells (MW-1, MW-7, MW-8, MW-12, MW-13, and MW-18) and three Site monitoring wells (MW-10, MW-11, and MW-19), as described in the Revised Site Management Plan (SMP) (S&W Redevelopment of North America, LLC, November 2011, Revised by GHD, February 2017).

Site groundwater monitoring well (MW-10) was not able to be sampled during the fall 2018 monitoring event due to being blocked by a vehicle. Several unsuccessful attempts were made to find the vehicle's owner. It is worth noting that concentrations of VOCs of concern have not been detected above groundwater standards in samples taken from MW-10 since December 2012, and have been below laboratory method detection limits, with the exception of vinyl chloride in the July 2016 sample, for the same period of time. Syracuse Label Company, Inc. is proposing to sample MW-10 as part of the May 2019 monitoring event.

Groundwater samples taken from each of the groundwater monitoring wells during this monitoring event were analyzed for the reduced list of chlorinated volatile organic compounds (VOCs) of concern for the Site.

On behalf of Syracuse Label Company, Inc., GHD is submitting the attached figure, tables, laboratory analytical report, groundwater field sampling logs, and equipment calibration sheets for your reference. The fall 2018 groundwater monitoring data was submitted to the EQuIS database and is awaiting upload. We will contact you prior to the next round of groundwater monitoring, which is scheduled for May 2019, in accordance with the previously approved monitoring variance request (GHD, October 12, 2016).

Please contact me at 315.679.5732 if you have any questions or concerns.

Sincerely,

GHD

A blue ink signature of Ian E. McNamara, written in a cursive style.

Ian E. McNamara
Scientist – Environment

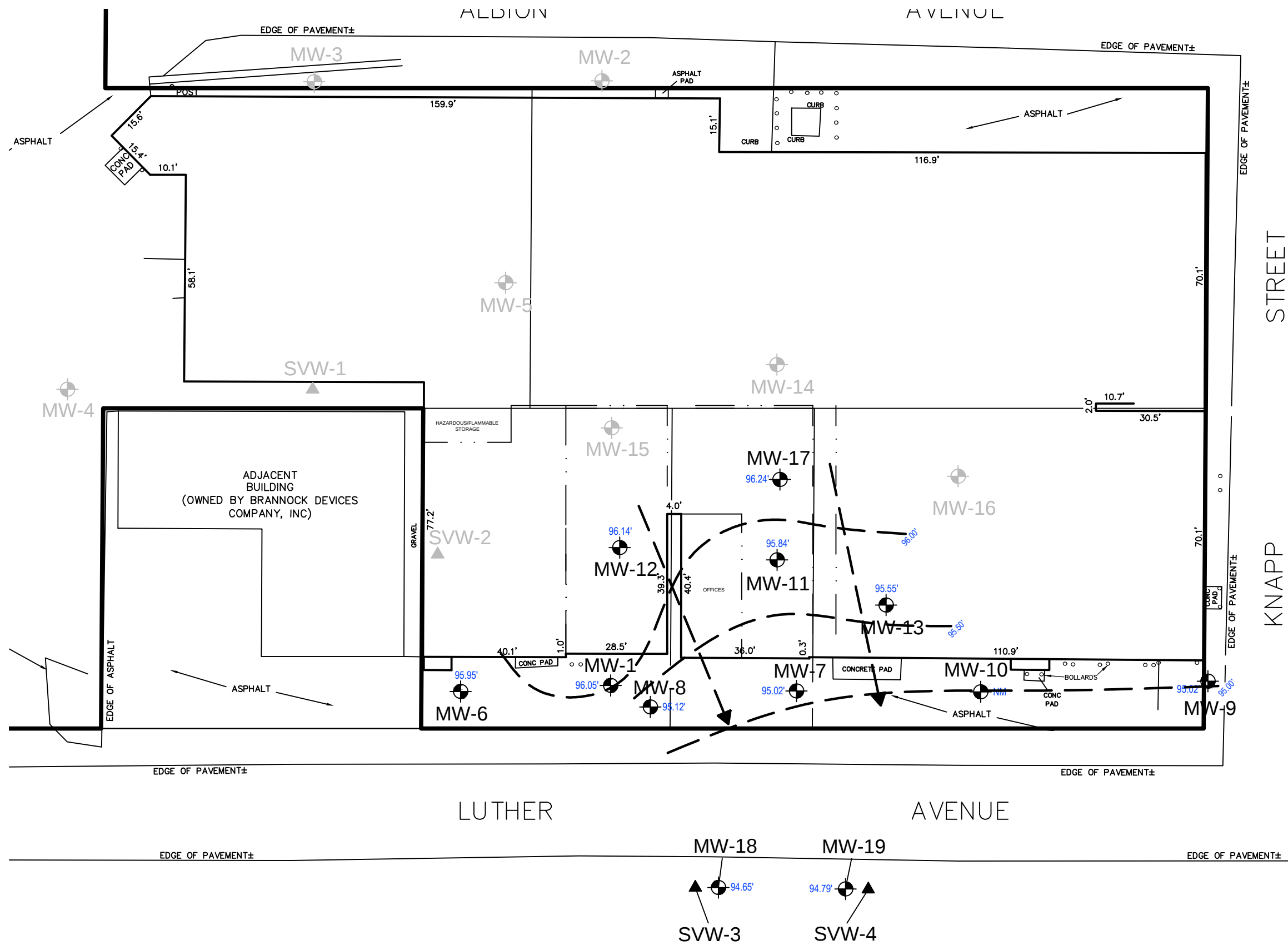
IEM/jas

Enclosures

cc: Mark Sergott, New York State Department of Health (w/enc.)
Paul Roux, Syracuse Label and Surround Printing (w/enc.)



Figures



LEGEND:

- MW-1
- SVW-3
- MW-2
- SVW-1
-
-
- 95.00'
-



NOTES:

1. SITE FEATURES BASED ON SITE SURVEY BY IANUZI & ROMANS, P.C. MARCH 2010 AND NOVEMBER 2010.



Syracuse Label Company, Inc.
110 Luther Avenue BCP Site (#C734118)
Fall 2018 Groundwater Monitoring
Site Layout and Groundwater
Flow Direction

Job Number 86-14941
Revision A
Date 01.02.2019

Figure 1



Tables



Table 1
Groundwater Elevations

Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
BCP Site #C734118

Monitoring Well I.D.	Date	Reference Point	Reference Elevation (feet)	DTW (feet)	DOW (feet)	Water Elevation (feet)	Volume (gal)
MW-1	9/22/2011	Top of PVC	97.75	2.10	11.11	95.65	0.36
	3/29/2012			2.32	11.11	95.43	0.35
	12/20/2012			2.41	11.11	95.34	0.35
	3/28/2013			2.45	11.11	95.30	0.35
	12/18/2013			2.55	11.11	95.20	0.34
	6/18/2014			2.31	11.20	95.44	0.36
	6/24/2015			2.01	11.20	95.74	0.37
	9/28/2015			2.35	11.20	95.40	0.35
	7/6/2016			2.65	11.25	95.10	0.34
	9/22/2016			1.66	11.25	96.09	0.38
	5/31/2017			1.64	11.48	96.11	0.39
	11/29/2017			1.55	11.50	96.20	0.40
	5/31/2018			1.75	11.45	96.00	0.39
	12/18/2018			1.70	11.48	96.05	0.39
MW-6	12/19/2012	Top of PVC	97.49	NM	NM	NM	NM
	6/24/2015			2.11	16.25	95.38	2.26
	12/29/2015			2.08	16.25	95.41	2.27
	5/31/2018			NM	NM	NM	NM
	12/18/2018			1.54	16.25	95.95	2.35
MW-7	6/23/2011	Top of PVC	97.28	2.73	15.80	94.55	2.09
	8/30/2011			2.31	15.71	94.97	2.14
	9/22/2011			3.35	15.71	93.93	1.98
	3/29/2012			3.04	15.79	94.24	2.04
	6/28/2012			2.95	15.79	94.33	2.05
	9/13/2012			4.89	15.79	92.39	1.74
	12/21/2012			2.92	15.79	94.36	2.06
	3/28/2013			3.35	16.29	93.93	2.07
	6/27/2013			2.17	15.36	95.11	2.11
	9/26/2013			7.11	15.36	90.17	1.32
	12/18/2013			8.00	15.36	89.28	1.18
	3/26/2014			2.83	15.36	94.45	2.00
	6/18/2014			7.81	15.36	89.47	1.21
	9/29/2014			5.85	16.45	91.43	1.70
	12/29/2014			4.37	16.40	92.91	1.92
	3/30/2015			1.85	16.45	95.43	2.34
	6/24/2015			2.51	16.39	94.77	2.22
	9/28/2015			7.77	16.49	89.51	1.40
	12/28/2015			2.98	16.40	94.30	2.15
	3/30/2016			2.45	16.40	94.83	2.23
	7/6/2016			4.25	16.40	93.03	1.94
	9/22/2016			3.77	16.40	93.51	2.02
	12/20/2016			3.73	16.47	93.55	2.04
	5/31/2017			2.12	16.72	95.16	2.34
	11/29/2017			2.69	16.68	94.59	2.24
	5/31/2018			2.09	16.69	95.19	2.34
	12/18/2018			2.26	16.65	95.02	2.30



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Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
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Monitoring Well I.D.	Date	Reference Point	Reference Elevation (feet)	DTW (feet)	DOW (feet)	Water Elevation (feet)	Volume (gal)
MW-8	6/23/2011	Top of PVC	97.38	2.50	17.05	94.88	2.33
	8/30/2011			2.50	17.05	94.88	2.33
	9/22/2011			2.46	17.05	94.92	2.33
	3/30/2012			2.51	17.06	94.87	2.33
	6/28/2012			2.76	17.06	94.62	2.29
	9/13/2012			2.90	17.06	94.48	2.27
	12/21/2012			2.41	17.06	94.97	2.34
	3/28/2013			2.37	17.26	95.01	2.38
	6/27/2013			2.42	16.55	94.96	2.26
	9/26/2013			2.95	16.55	94.43	2.18
	12/18/2013			2.95	16.55	94.43	2.18
	3/26/2014			2.86	16.55	94.52	2.19
	6/18/2014			2.61	16.55	94.77	2.23
	9/29/2014			2.86	16.50	94.52	2.18
	12/29/2014			2.59	16.27	94.79	2.19
	3/30/2015			2.35	16.51	95.03	2.27
	6/24/2015			2.78	16.50	94.60	2.20
	9/29/2015			3.42	16.49	93.96	2.09
	12/29/2015			NM	NM	NM	NM
	3/30/2016			2.14	16.70	95.24	2.33
	7/6/2016			3.62	16.75	93.76	2.10
	9/22/2016			6.04	16.75	91.34	1.71
	12/20/2016			2.25	16.81	95.13	2.33
	5/31/2017			2.34	17.00	95.04	2.35
	11/29/2017			3.25	17.02	94.13	2.20
	5/31/2018			2.20	17.00	95.18	2.37
	12/18/2018			2.26	17.00	95.12	2.36
MW-9	12/19/2012	Top of PVC	97.14	NM	NM	NM	NM
	6/24/2015			2.11	14.96	95.03	2.06
	5/31/2018			2.20	14.96	94.94	2.04
	12/18/2018			2.12	14.96	95.02	2.05
MW-10	9/22/2011	Top of PVC	97.34	2.60	11.82	94.74	1.48
	3/29/2012			2.64	11.82	94.70	1.47
	12/21/2012			2.63	11.82	94.71	1.47
	3/28/2013			2.49	11.82	94.85	1.49
	12/18/2013			2.62	12.95	94.72	1.65
	6/18/2014			2.42	13.11	94.92	1.71
	6/24/2015			2.28	13.25	95.06	1.76
	7/6/2016			2.85	13.55	94.49	1.71
	11/29/2017			2.44	14.00	94.90	1.85
	5/31/2018			2.28	14.00	95.06	1.88
	12/18/2018			NM	NM	NM	NM



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Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
BCP Site #C734118

Monitoring Well I.D.	Date	Reference Point	Reference Elevation (feet)	DTW (feet)	DOW (feet)	Water Elevation (feet)	Volume (gal)
MW-11	6/23/2011	Top of PVC	97.89	2.51	14.30	95.38	0.47
	8/29/2011			2.48	14.34	95.41	0.47
	9/22/2011			4.22	14.34	93.67	0.40
	3/29/2012			2.43	14.35	95.46	0.48
	6/28/2012			2.81	14.35	95.08	0.46
	9/13/2012			3.28	14.35	94.61	0.44
	12/19/2012			2.67	14.35	95.22	0.47
	3/28/2013			2.23	14.35	95.66	0.48
	6/27/2013			1.59	13.91	96.30	0.49
	9/26/2013			2.10	13.91	95.79	0.47
	12/18/2013			2.46	13.91	95.43	0.46
	3/26/2014			2.41	13.91	95.48	0.46
	6/18/2014			2.39	13.91	95.50	0.46
	9/29/2014			2.72	13.91	95.17	0.45
	12/29/2014			2.23	13.91	95.66	0.47
	3/30/2015			1.96	13.91	95.93	0.48
	6/24/2015			2.01	13.91	95.88	0.48
	9/28/2015			2.66	13.91	95.23	0.45
	12/28/2015			2.46	13.91	95.43	0.46
	3/30/2016			2.05	13.91	95.84	0.47
	7/6/2016			2.80	13.91	95.09	0.44
	9/22/2016			2.58	13.91	95.31	0.45
	12/19/2016			2.31	13.91	95.58	0.46
	11/29/2017			2.23	13.91	95.66	0.47
	5/31/2018			2.06	13.91	95.83	0.47
	12/18/2018			2.05	15.34	95.84	0.53
MW-12	6/23/2011	Top of PVC	98.02	2.27	15.60	95.75	0.53
	8/29/2011			2.12	15.60	95.90	0.54
	9/22/2011			2.32	15.60	95.70	0.53
	3/29/2012			2.16	15.61	95.86	0.54
	6/28/2012			2.05	15.61	95.97	0.54
	9/13/2012			3.08	15.61	94.94	0.50
	12/19/2012			2.25	15.60	95.77	0.53
	3/28/2013			2.00	15.60	96.02	0.54
	6/27/2013			2.02	15.60	96.00	0.54
	9/26/2013			2.34	15.60	95.68	0.53
	12/18/2013			2.30	15.60	95.72	0.53
	3/26/2014			2.35	15.60	95.67	0.53
	6/18/2014			1.35	15.60	96.67	0.57
	9/29/2014			2.47	15.60	95.55	0.53
	12/29/2014			1.95	15.60	96.07	0.55
	3/30/2015			1.68	15.60	96.34	0.56
	6/24/2015			1.81	15.60	96.21	0.55
	9/28/2015			2.44	15.60	95.58	0.53
	12/28/2015			2.17	15.60	95.85	0.54
	3/30/2016			1.87	15.73	96.15	0.55
	7/6/2016			2.75	15.73	95.27	0.52
	9/22/2016			2.25	15.73	95.77	0.54
	12/19/2016			2.09	15.73	95.93	0.55
	5/31/2017			1.60	16.00	96.42	0.58
	11/29/2017			2.08	15.98	95.94	0.56
	5/31/2018			1.93	15.98	96.09	0.56
	12/18/2018			1.88	16.00	96.14	0.56



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Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
BCP Site #C734118

Monitoring Well I.D.	Date	Reference Point	Reference Elevation (feet)	DTW (feet)	DOW (feet)	Water Elevation (feet)	Volume (gal)
MW-13	6/23/2011	Top of PVC	97.98	2.70	12.30	95.28	0.38
	8/29/2011			2.62	12.36	95.36	0.39
	9/22/2011			4.41	12.36	93.57	0.32
	3/29/2012			2.59	12.41	95.39	0.39
	6/28/2012			2.93	12.41	95.05	0.38
	9/13/2012			3.36	12.41	94.62	0.36
	12/19/2012			2.85	12.41	95.13	0.38
	3/28/2013			2.42	12.41	95.56	0.40
	6/27/2013			2.47	14.19	95.51	0.47
	9/26/2013			2.32	14.19	95.66	0.47
	12/18/2013			2.81	14.19	95.17	0.46
	3/26/2014			2.97	14.19	95.01	0.45
	6/18/2014			2.66	14.19	95.32	0.46
	9/29/2014			2.97	14.19	95.01	0.45
	12/29/2014			2.54	14.19	95.44	0.47
	3/30/2015			2.15	14.19	95.83	0.48
	6/24/2015			2.42	14.19	95.56	0.47
	9/28/2015			2.96	14.19	95.02	0.45
	12/28/2015			2.72	14.19	95.26	0.46
	3/30/2016			2.32	14.19	95.66	0.47
	7/6/2016			3.15	14.19	94.83	0.44
	9/22/2016			2.79	14.19	95.19	0.46
	12/19/2016			2.60	14.19	95.38	0.46
	5/31/2017			2.07	14.19	95.91	0.48
	11/29/2017			2.56	14.10	95.42	0.46
	5/31/2018			2.40	16.04	95.58	0.55
	12/18/2018			2.43	16.10	95.55	0.55
MW-17	6/23/2011	Top of PVC	97.89	2.05	13.00	95.84	1.75
	8/29/2011			1.95	12.60	95.94	1.70
	9/22/2011			3.72	12.60	94.17	1.42
	3/29/2012			1.95	12.52	95.94	1.69
	6/28/2012			2.33	12.52	95.56	1.63
	9/13/2012			2.86	12.52	95.03	1.55
	12/19/2012			2.15	12.52	95.74	1.66
	3/28/2013			1.73	12.52	96.16	1.73
	6/27/2013			1.56	12.52	96.33	1.75
	9/26/2013			1.89	12.52	96.00	1.70
	12/18/2013			1.79	12.52	96.10	1.72
	3/26/2014			1.71	12.52	96.18	1.73
	6/18/2014			1.76	12.52	96.13	1.72
	9/29/2014			2.01	12.52	95.88	1.68
	12/29/2014			1.61	12.52	96.28	1.75
	3/30/2015			1.31	12.52	96.58	1.79
	6/24/2015			1.10	12.52	96.79	1.83
	9/28/2015			2.01	12.52	95.88	1.68
	12/28/2015			1.87	12.52	96.02	1.70
	3/30/2016			1.59	12.52	96.30	1.75
	7/6/2016			2.32	12.52	95.57	1.63
	9/22/2016			1.96	12.52	95.93	1.69
	12/19/2016			1.80	12.52	96.09	1.72
	5/31/2018			1.65	12.52	96.24	1.74
	12/18/2018			1.65	12.52	96.24	1.74



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110 Luther Avenue BCP Site
BCP Site #C734118

Monitoring Well I.D.	Date	Reference Point	Reference Elevation (feet)	DTW (feet)	DOW (feet)	Water Elevation (feet)	Volume (gal)
MW-18	9/22/2011	Top of PVC	96.86	4.19	12.61	92.67	1.35
	3/29/2012			2.44	12.61	94.42	1.63
	12/20/2012			2.36	12.58	94.50	1.64
	6/19/2014			2.57	12.64	94.29	1.61
	12/29/2014			2.99	12.59	93.87	1.54
	6/24/2015			2.46	12.55	94.40	1.61
	12/30/2015			2.25	12.58	94.61	1.65
	7/7/2016			2.78	12.60	94.08	1.57
	9/22/2016			2.48	12.60	94.38	1.62
	5/31/2017			2.05	12.80	94.81	1.72
	11/29/2017			2.42	12.80	94.44	1.66
	5/31/2018			2.26	12.78	94.60	1.68
	12/18/2018			2.21	12.78	94.65	1.69
MW-19	9/22/2011	Top of PVC	97.14	4.26	13.11	92.88	1.42
	3/29/2012			2.52	13.11	94.62	1.69
	12/20/2012			2.35	13.10	94.79	1.72
	6/19/2014			2.61	13.11	94.53	1.68
	12/29/2014			2.17	13.09	94.97	1.75
	6/24/2015			2.39	13.05	94.75	1.71
	12/30/2015			2.25	13.10	94.89	1.74
	7/7/2016			3.02	13.05	94.12	1.60
	9/22/2016			2.65	13.05	94.49	1.66
	11/29/2017			2.56	13.28	94.58	1.72
	5/31/2018			2.55	13.28	94.59	1.72
	12/18/2018			2.35	13.27	94.79	1.75



Table 2
Summary of Groundwater Sample Field Parameters

Syracuse Label Co. Inc.
 110 Luther Avenue BCP Site
 BCP Site #C734188

Well ID	Date Sampled	Dissolved Oxygen	Electrical Conductivity	pH	Redox	Temp	Turbidity
		mg/L	mS/cm	S.U.	mV	oC	NTU
MW-01	9/22/2011	12.01	4.032	8.81	-156.2	16.07	1,000
	3/29/2012	2.44	2.598	7.13	-106	11.1	689.4
	12/20/2012	3.49	1.428	7.6	96.7	11.56	398.6
	6/18/2014	0.78	3.149	6.94	-127.2	17.91	1,053
	6/24/2015	0.98	3.845	6.99	-144.3	19.6	603.1
	9/28/2015	0.47	3.482	7.2	-130.1	19.82	282.1
	7/6/2016	0.96	3.105	7.05	-52	21.72	458.9
	9/22/2016	0.63	2.287	6.65	-144.7	23.63	330.1
	5/31/2017	2.61	1.94	7.44	-96.3	22.1	26.4
	11/29/2017	3.91	1.278	7.06	-103.9	13.62	57.4
	5/31/2018	2.21	2.514	6.62	-45.9	21.1	70.9
	12/18/2018	2.19	2.062	7.38	-80.2	9.1	43
MW-06	6/24/2015	-0.23	1.398	7.05	-146.8	14.88	547.7
	12/29/2015	0.71	1.435	7.12	-25.9	13.62	1,338



Table 2
Summary of Groundwater Sample Field Parameters

Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
BCP Site #C734188

Well ID	Date Sampled	Dissolved Oxygen	Electrical Conductivity	pH	Redox	Temp	Turbidity
		mg/L	mS/cm	S.U.	mV	oC	NTU
MW-07	2/16/2010	1.3	1.202	6.88	-77.6	10.73	550
	2/18/2011	5.9	1.073	6.75	5.5	12.05	7.7
	3/22/2011	2.37	1.511	6.18	-190.9	11.55	995.6
	4/18/2011	-15.82	1.356	6.24	-208.7	11.99	54.3
	6/22/2011	6.09	1.438	6.52	-126.2	15.45	24.6
	8/30/2011	20.64	2.073	6.57	-165.6	14.5	9.6
	9/22/2011	14.75	1.833	6.82	-152.7	12.91	410
	3/29/2012	0.5	1.188	6.88	-124.2	13.34	9.9
	6/28/2012	1.44	2.2	6.13	-232.5	16.42	3.9
	9/13/2012	0.42	2.785	6.03	-71.9	18.39	9.6
	12/21/2012	3.69	2.314	6.72	-101.2	15.63	1,190
	3/28/2013	-4.72	1.532	6.83	-133.8	13.78	271.3
	6/27/2013	0.14	3.256	5.57	-127.9	16.52	1,068
	9/26/2013	4.3	4.264	6.67	-107.6	18.76	174.3
	12/18/2013	0.4	3.696	7.15	-180.4	15.68	458.4
	3/26/2014	4.18	3.297	6.9	-162.1	11.72	20.3
	6/18/2014	0.31	2.852	6.99	-141.3	15.04	1,344
	9/29/2014	0.61	3.02	7.16	-131.2	18.58	289.1
	12/29/2014	0.75	2.706	6.9	-152.9	13.98	213.8
	3/30/2015	0.87	1.816	7.05	-102.8	10.78	182.7
	6/24/2015	3.23	2.97	7.08	-142.8	16.12	66.9
	9/28/2015	1.21	2.524	7.08	-136.8	17.63	155.8
	12/28/2015	0.75	2.72	6.96	-128.7	14.02	73.2
	3/30/2016	4.53	1.152	7.1	-149.6	13.91	58.7
	7/6/2016	0.49	2.564	7.03	-94.6	17.66	360.9
	9/22/2016	0.33	2.859	6.48	-109.4	18.9	243.4
	12/20/2016	1.33	3.398	7.04	-148.8	15.48	175.1
	5/31/2017	2.48	2.797	6.8	-87.7	22.14	167
	11/29/2017	4.26	2.634	6.95	-100.5	15.89	142
	5/31/2018	0.87	2.788	6.71	-89.1	18.9	52.5
	12/18/2018	2.06	2.588	6.79	-80.8	12.9	10



Table 2
Summary of Groundwater Sample Field Parameters

Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
BCP Site #C734188

Well ID	Date Sampled	Dissolved Oxygen	Electrical Conductivity	pH	Redox	Temp	Turbidity
		mg/L	mS/cm	S.U.	mV	oC	NTU
MW-08	6/22/2011	0.6	1.916	6.78	-39.6	14.68	970.2
	8/30/2011	28.42	2.358	6.42	-162.3	14.59	17
	9/22/2011	19.61	2.081	7.55	-147.8	13.46	30
	3/29/2012	1.11	1.854	6.7	-132.6	13	23.6
	6/28/2012	0.75	1.902	6.21	-76.3	16.64	0.9
	9/13/2012	0.43	1.55	6.57	-39.1	18.61	14.9
	12/21/2012	4.91	1.357	6.87	-43.7	14.92	4.8
	3/28/2013	-1.63	2.847	5.83	-117.6	11.88	516.6
	6/27/2013	0.15	3.944	5.11	-87	16.24	288.7
	9/26/2013	2.96	4.126	6.2	-117.3	18.38	28.3
	12/18/2013	0.2	4.235	6.94	-155.4	13.92	119.8
	3/26/2014	3.41	6.521	6.64	-121.8	9.28	30
	6/18/2014	0.22	3.205	6.79	-131.5	14.55	112.5
	9/29/2014	0.35	2.888	6.73	-119.6	17.92	19.4
	12/29/2014	0.73	2.577	6.48	-129.2	14.22	88.6
	3/30/2015	0.86	3.18	6.89	-105.9	10.64	22
	6/24/2015	0.51	2.502	6.74	-130	14.6	40
	9/29/2015	0.18	2.585	6.74	-112.5	17.77	8.1
	3/30/2016	3.41	1.186	6.95	-130.8	13.13	22.2
	7/6/2016	0.51	2.121	6.81	-64.3	15.32	99.3
	9/22/2016	0.25	2.469	6.39	-85.8	18.24	304.7
	12/20/2016	0.93	2.841	6.86	-136.3	14.98	185.4
	5/31/2017	6.69	1.437	6.87	-99.9	21.67	96.7
	11/29/2017	28.4	2.269	6.86	-93.5	16.23	37.5
	5/31/2018	0.97	2.313	6.92	-68.1	21.4	37.7
	12/18/2018	1.89	2.535	7.04	-81	12.6	0.4
MW-09	6/24/2015	0.97	1.435	7.04	-61.1	14.39	394.3



Table 2
Summary of Groundwater Sample Field Parameters

Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
BCP Site #C734188

Well ID	Date Sampled	Dissolved Oxygen	Electrical Conductivity	pH	Redox	Temp	Turbidity
		mg/L	mS/cm	S.U.	mV	oC	NTU
MW-10	9/22/2011	5.14	1.066	8.93	-90.7	14.84	430
	3/29/2012	0.38	0.857	7.09	-98.6	12.04	256.7
	12/21/2012	4.24	0.906	7.23	-10.1	14.92	401.7
	6/18/2014	0.33	2.388	6.74	-68.4	16.86	1,713
	6/24/2015	0.2	2.276	6.89	-148.1	15.23	250.2
	7/6/2016	0.46	0.973	7.02	-77.4	15.54	631.1
	11/29/2017	2.81	0.993	7.39	-123.9	16.54	197.6
MW-11	2/16/2010	1.5	1.302	6.89	-129.3	16.49	300
	2/18/2011	47.3	1.075	6.94	-109.5	18.7	121.6
	3/22/2011	1.47	2.766	6.46	-94.9	17.45	372.2
	4/18/2011	-4.75	3.127	6.56	-140.4	17.97	157.4
	6/22/2011	1.09	4.877	6.28	-94.7	18.88	274.9
	8/29/2011	15.42	6.063	6.5	-127.9	15.84	550
	9/22/2011	1.68	6.14	6.32	-182	21.13	350
	3/29/2012	0.97	6.387	6.37	-117.3	18.21	172.4
	6/28/2012	2.5	7.893	6.52	-153.7	19.46	101.2
	9/13/2012	0.7	4.665	6.64	-155.9	19.17	1,077
	12/19/2012	3.31	6.435	6.91	-146.3	19.2	452.3
	3/28/2013	1.66	4.817	6.34	-195.2	18.53	1,950
	6/27/2013	0.36	3.803	6.55	-124.8	19.86	508.2
	9/26/2013	3.32	3.984	6.36	-64.4	20.02	523.4
	12/18/2013	0.35	4.641	6.77	-133.4	19.11	1,397
	3/26/2014	5.6	3.548	6.69	-136.8	18.83	148.7
	6/18/2014	0.27	2.822	6.83	-125.2	19.2	1,720
	9/29/2014	0.56	2.69	7.15	-132.1	19.54	461.7
	12/29/2014	0.33	2.472	6.83	-156.1	18.41	194.1
	3/30/2015	1.5	2.81	7.02	-121.5	18.55	470.5
	6/24/2015	0.82	2.706	7	-136.4	19.02	229.5
	9/28/2015	0.52	2.63	7.06	-60.3	19.68	295
	12/28/2015	0.95	2.584	6.98	-53	18.61	180
	3/30/2016	3.41	1.432	7.25	-135.4	18.72	151.7
	7/6/2016	0.64	2.421	7.37	-118.3	18.41	68.4
	9/22/2016	0.42	2.586	6.9	-124.3	19.45	197.1
	12/19/2016	1.21	2.943	7.37	-150.3	18.95	337.1
	11/29/2017	3.44	2.517	7.12	-150.5	16.99	230.4
	12/18/2018	2.3	2.918	7.09	-132.2	16.1	1,349



Table 2
Summary of Groundwater Sample Field Parameters

Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
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Well ID	Date Sampled	Dissolved Oxygen	Electrical Conductivity	pH	Redox	Temp	Turbidity
		mg/L	mS/cm	S.U.	mV	oC	NTU
MW-12	6/22/2011	2.63	0.942	7.96	-108.1	20.66	252.8
	8/29/2011	4.41	1.851	7.04	-170.2	14.46	1,000
	9/22/2011	2.87	1.655	7	-209.8	18.98	20
	3/29/2012	1.01	1.526	7	-110.4	18.94	494.4
	6/28/2012	0.51	1.805	7.16	-197.3	18.63	442.8
	9/13/2012	1.34	1.509	6.89	-123.5	18.31	975.5
	12/19/2012	4.25	1.574	7.41	-119.2	19.11	870.4
	3/28/2013	5.56	3.882	6.34	-157.2	19.07	2,000
	6/27/2013	0.93	5.094	6.19	-76.9	18.87	420.6
	9/26/2013	3.25	5.5	6.23	-48.1	19.11	610.8
	12/18/2013	0.57	6.359	6.37	-89.1	18.91	1,541
	3/26/2014	2.97	5.655	6.4	-124.6	19.12	1,039
	6/18/2014	0.27	4.35	6.39	-100.7	18.96	1,085
	9/29/2014	0.24	3.511	6.44	-91.5	19.09	568.6
	12/29/2014	0.08	2.948	6.29	-163.2	18.32	975
	3/30/2015	1.5	2.965	6.76	-138.4	18.93	614.8
	6/24/2015	0.56	2.179	6.84	-167.6	18.8	431.9
	9/28/2015	0.27	2.123	6.87	-163.3	19.04	376.5
	12/28/2015	0.73	2.132	6.63	-121.3	18.34	991.6
	3/30/2016	2.07	1.374	6.95	-165.7	18.46	329
	7/6/2016	0.74	2.154	6.79	-89.5	17.93	413.3
	9/22/2016	0.33	2.075	6.55	-136.1	18.92	239.1
	12/19/2016	0.73	2.278	7.29	-218.5	19.09	303.1
	5/31/2017	3.11	2.066	6.43	-88.7	17.86	197
	11/29/2017	3.64	1.977	6.76	-88.5	16.74	229.4
	5/31/2018	2.57	2.248	6.45	-50.1	16.9	97.1
	12/18/2018	1.84	2.172	7.04	-88.5	15.4	25



Table 2
Summary of Groundwater Sample Field Parameters

Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
BCP Site #C734188

Well ID	Date Sampled	Dissolved Oxygen	Electrical Conductivity	pH	Redox	Temp	Turbidity
		mg/L	mS/cm	S.U.	mV	oC	NTU
MW-13	6/22/2011	0.65	0.471	8.33	-235	19.07	290.8
	8/29/2011	14.28	0.572	7.09	-167.2	15.26	400
	9/22/2011	1.73	0.577	7.2	-210.9	19.83	6.8
	3/29/2012	1.01	0.412	7.1	-115.7	18.36	236.6
	6/28/2012	0.21	0.594	7.58	-240.3	19.12	847.3
	9/13/2012	0.92	0.523	7.3	-141.2	19.43	1,300
	12/19/2012	3.76	0.523	7.8	-153.8	19.06	1,220
	3/28/2013	3.94	0.528	7.67	-232.4	17.79	684.7
	6/27/2013	0.29	0.505	7.13	-52	18.94	1,507
	9/26/2013	3.42	0.591	7.76	-121.9	19.73	276
	12/18/2013	0.18	1.59	6.83	-169.1	19.2	1,543
	3/26/2014	1.19	1.927	6.82	-200.9	18.08	451
	6/18/2014	0.36	1.781	6.21	-64.3	18.6	2,268
	9/29/2014	0.6	1.955	6.76	-115.7	19.23	1,034
	12/29/2014	0.14	2.445	6.11	-108.1	18.26	543.4
	3/30/2015	1.51	2.228	6.82	-121.6	18.06	511.7
	6/24/2015	0.46	2.101	6.55	-136.3	18.75	1,257
	9/28/2015	0.64	7.812	6.54	-112.6	19.49	243.3
	12/28/2015	0.98	1.723	6.73	-129	18.49	189.7
	3/30/2016	2.46	0.935	6.8	-151.1	18.28	418.3
	7/6/2016	0.48	1.499	6.7	-95.8	18.13	1,367
	9/22/2016	0.43	1.289	6.48	-123.5	19.95	274.9
	12/19/2016	0.55	1.772	6.83	-169.8	18.66	1,382
	5/31/2017	2.02	1.817	6.55	-95	18.81	319
	11/29/2017	2.75	1.649	6.64	-100.4	17.67	104.1
	5/31/2018	1.51	1.913	6.88	-111.2	17.5	176
	12/18/2018	2.67	1.916	6.93	-105	16	25



Table 2
Summary of Groundwater Sample Field Parameters

Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
BCP Site #C734188

Well ID	Date Sampled	Dissolved Oxygen	Electrical Conductivity	pH	Redox	Temp	Turbidity
		mg/L	mS/cm	S.U.	mV	oC	NTU
MW-17	2/16/2010	4.6	1.2	7.01	-16.6	16.79	1,000
	2/18/2011	11.4	0.882	7.04	-6.1	18.83	133.8
	3/22/2011	3.09	1.102	7.38	-42.8	18.06	127
	4/18/2011	0.39	0.981	7.2	-14.9	18.21	109.3
	6/22/2011	1.47	1.102	7.31	-65.4	19.64	142.2
	8/29/2011	13.3	3.589	6.67	-142.3	16.06	1,000
	9/22/2011	0.48	2.634	6.28	-225.6	20.07	1.6
	3/29/2012	0.6	2.133	6.54	-113.4	19	1,089
	6/28/2012	0.96	2.141	6.58	-116.9	19.54	555.3
	9/13/2012	0.86	1.596	6.57	-56.2	19.75	1,260
	12/19/2012	3.77	1.704	6.68	-98.2	19.52	1,211
	3/28/2013	2.47	1.656	6.73	-130	19.03	402.4
	6/27/2013	0.43	2.458	6.45	-101.2	20.13	391.5
	9/26/2013	3.32	2.315	6.74	-78.6	20.37	481.1
	12/18/2013	0.4	2.582	6.89	-148.1	19.27	1,328
	3/26/2014	3.75	2.365	7.04	-160.4	19.22	816.6
	6/18/2014	0.47	2.105	6.75	-112	19.83	568.4
	9/29/2014	0.59	1.934	6.89	-63.1	20.18	538.6
	12/29/2014	0.22	1.844	6.34	-139.3	18.85	461.2
	3/30/2015	1.07	1.848	6.86	-105.6	19.14	466.4
	6/24/2015	0.97	1.76	6.78	-77.9	20.2	54.4
	9/28/2015	0.68	1.698	6.85	-81.2	20.52	89.8
	12/28/2015	0.64	1.694	6.81	-88.8	19.18	685.4
	3/30/2016	4.49	1.178	7	-108.6	19.07	50.4
	7/6/2016	0.74	1.634	6.82	-37.6	19.1	941.8
	9/22/2016	0.64	1.645	6.43	-77.3	20.11	265.1
	12/19/2016	1.33	1.829	7.03	-88.6	19.09	409.2



Table 2
Summary of Groundwater Sample Field Parameters

Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
BCP Site #C734188

Well ID	Date Sampled	Dissolved Oxygen	Electrical Conductivity	pH	Redox	Temp	Turbidity
		mg/L	mS/cm	S.U.	mV	oC	NTU
MW-18	10/14/2010	6.91	0.97	7.29	105.8	16.34	1,000
	9/22/2011	0.62	1.504	6.89	-234.3	19.64	0.8
	3/29/2012	0.79	2.312	7.5	-100	9.6	198.5
	12/20/2012	0.54	1.562	7.2	44.7	10.75	29.3
	6/19/2014	0.61	1.741	7.35	-69.1	15.42	26.5
	12/29/2014	0.24	1.833	7.64	-108.6	10.81	35.4
	6/24/2015	2.69	3.617	7.14	-103.4	14.25	468.5
	12/30/2015	1.01	2.876	7.42	-63.2	11.94	74.6
	7/7/2016	0.81	3.015	7.32	8.6	14.96	21.6
	9/22/2016	0.38	3.84	6.86	-74.4	22.98	0.3
	5/31/2017	2.96	1.484	7.44	-89.7	17.67	360
	11/29/2017	4.49	1.899	7.71	-76.1	13.85	538.4
	5/31/2018	1.41	1.458	7.52	-87.7	20.2	22.8
	12/18/2018	1.95	1.741	7.6	-46.8	10.8	50.6
MW-19	10/14/2010	7.46	2.068	7.04	102.6	16.97	1,000
	9/22/2011	1.34	2.098	6.75	-245	19.74	3
	3/29/2012	1.66	1.121	7.68	-98.2	10.17	228.4
	12/20/2012	4.04	0.653	7.9	92.6	13.24	94.8
	6/19/2014	1.43	1.765	7.24	-73.8	14.62	69.6
	12/29/2014	0.88	1.235	7.22	-57.3	11.49	164.2
	6/24/2015	8.25	1.48	7.11	-81	13.57	218.9
	12/30/2015	2.55	1.6	7.33	-27.3	12.64	133
	7/7/2016	1.72	1.796	7.31	-25.8	14.84	208.6
	9/22/2016	1.01	1.461	6.81	-18.7	22.63	43.5
	11/29/2017	4.77	1.208	7.9	-13.5	14.29	840.5
	12/18/2018	4.18	1.508	8.17	72.2	10.1	172



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
BCP Site #C734118

		VOCs by EPA Method 8260				
		Tetrachloroethene	Trichloroethene	cis-1,2-dichloroethene	trans-1,2-dichloroethene	Vinyl chloride
		µg/L	µg/L	µg/L	µg/L	µg/L
Regulatory Standard		5	5	5	5	2
Sample ID	Date Sampled					
MW-01	2/10/2010	60	39	150	0.91J	33
	9/11/2011	72	34	110	<0.76U	12
	3/30/2012	45	19	100	<1U	29
	12/20/2012	25	21	78	<1U	25
	6/19/2014	0.92J	1.9	59	<1U	17
	6/25/2015	<1U	0.59J	130	<1U	42
	9/29/2015	1.3J	2.4	220	<2U	94
	7/7/2016	1.1J	7.2	2,500	3.4	1,100
	9/23/2016	<0.36U	1.7	410	1.3	160
	5/31/2017	<3.6U	6.4J	910	<9U	250
	11/29/2017	<3.6U	<4.6U	440	<9U	290
	5/31/2018	<3.6U	<4.6U	1,000	<9U	580
	12/18/2018	<3.6U	<4.6U	550	<9U	380
MW-06	6/25/2015	<1U	<1U	<1U	<1U	<1U
	12/29/2015	<1U	<1U	<1U	<1U	<1U

1. Regulatory Standard - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).
2. U - Analyzed for but not detected above laboratory detection limit indicated
3. J - Indicates an estimated value
4. (-) - Not analyzed for
5. Feb-11, Mar-11, and Apr-11 data represents pilot test baseline, 1st post-pilot test sampling event, and 2nd post-pilot test sampling event, respectively
6. Jun-11, Aug-11, and Sep-11 data represents full scale ISCR injection baseline, 1st post-ISCR sampling event, and 2nd post-ISCR sampling event, respectively
7. Bold and highlighted result indicates an exceedance of applicable Regulatory Standard



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
BCP Site #C734118

		VOCs by EPA Method 8260				
		Tetrachloroethene	Trichloroethene	cis-1,2-dichloroethene	trans-1,2-dichloroethene	Vinyl chloride
		µg/L	µg/L	µg/L	µg/L	µg/L
Regulatory Standard		5	5	5	5	2
Sample ID	Date Sampled					
MW-07	1/1/2008	14,000	1,700	2,600	<200U	560
	2/11/2010	27,000	4,300	2,600	<150U	260J
	2/11/2011	17,000	2,600	2,600	<150U	620J
	3/11/2011	6,900	3,600	14,000	<76U	460J
	4/11/2011	370J	150J	17,000	<150U	690J
	6/11/2011	1,600	3,300	19,000	<190U	1,100J
	8/11/2011	240J	520J	24,000	<190U	8,500
	9/11/2011	240J	380	7,400	<38U	4,300
	3/29/2012	34	170J	11,000	36	4,300
	6/28/2012	<200U	140J	26,000	<200U	8,400
	9/13/2012	<400U	<400U	27,000	<400U	8,900
	12/21/2012	<400U	<400U	16,000	<400U	8,100
	3/3/2013	<400U	<400U	16,000	<400U	6,600
	3/28/2013	<400U	<400U	18,000	<400U	7,900
	6/27/2013	<80U	<80U	4,300	<80U	3,300
	9/26/2013	<80U	<80U	6,300	<80U	3,000
	12/18/2013	<40U	<40U	2,300	<40U	2,400
	3/26/2014	<20U	<20U	1,400	<20U	1,500
	6/18/2014	<20U	<20U	510	<20U	720
	9/29/2014	<4U	<4U	32	<4U	88
	12/29/2014	<1.8U	<2.3U	39	<4.5U	31
	3/30/2015	<5U	<5U	22	<5U	38
	6/25/2015	<5U	<5U	6.5	<5U	24
	9/28/2015	<5U	<5U	19 - 21	<5U	44 - 46
	12/28/2015	<5U	<5U	<5U	<5U	9.9
	3/30/2016	<5U	<5U	4.9J	<5U	18
	7/6/2016	<0.36U	<0.46U	1.6	<0.9U	6.3
	9/22/2016	<1.4U	<1.8U	<3.2U	<3.6U	<3.6U
	12/20/2016	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U
	5/31/2017	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U
	11/29/2017	<1.4U	<1.8U	<3.2U	<3.6U	<3.6U
	5/31/2018	<1.4U	<1.8U	<3.2U	<3.6U	<3.6U
	12/18/2018	<1.4U	<1.8U	<3.2U	<3.6U	<3.6U

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Table 3
Summary of Groundwater Sample Laboratory Analytical Results

Syracuse Label Co. Inc.
110 Luther Avenue BCP Site
BCP Site #C734118

		VOCs by EPA Method 8260				
		Tetrachloroethene	Trichloroethene	cis-1,2-dichloroethene	trans-1,2-dichloroethene	Vinyl chloride
		µg/L	µg/L	µg/L	µg/L	µg/L
Regulatory Standard		5	5	5	5	2
Sample ID	Date Sampled					
MW-08	1/2/2008	6,200	920	1,600	<200U	290
	2/1/2010	3,900	860	2,500	<15U	250
	2/2/2010	3,500	900	2,500	<30U	270
	6/6/2011	1,700	570	1,800	<19U	220
	6/11/2011	1,500	540	1,700	<19U	200
	8/8/2011	330	130J	3,900	80J	2,900
	8/11/2011	380J	140J	5,100	100J	4,000
	9/9/2011	500J	220J	5,500	87J	3,400
	9/11/2011	1,100J	420J	7,900	83J	2,800
	3/30/2012	82	22	140	1.1	66
	6/6/2012	3,000	1,300	6,500	<80U	2,000
	6/28/2012	1,000	460	4,000	21	1,300
	9/9/2012	6,800	1,500	7,000	34	2,200
	9/13/2012	9,500	1,900	8,000	34	2,100
	12/21/2012	1,800	470	6,600	<100U	2,700
	3/28/2013	800	380	9,400	<200U	4,300
	6/3/2013	17J	<40U	2,100	<40U	2,200
	6/27/2013	17J	<40U	2,100	<40U	2,000
	9/3/2013	<40U	<40U	140	<40U	81
	9/26/2013	<40U	<40U	160	<40U	67
	12/12/2013	<40U	<40U	<40U	<40U	110
	12/18/2013	<40U	<40U	<40U	<40U	110
	3/3/2014	<5U	<5U	310	<5U	380
	3/26/2014	<5U	<5U	330	<5U	380
	6/3/2014	<5U	<5U	120	<5U	64
	6/18/2014	<5U	<5U	110	<5U	67
	9/9/2014	<1U	0.15J	6	<1U	8.9
	9/29/2014	<1U	<1U	0.46J	<1U	<1U
	12/29/2014	<0.36U	<0.46U	0.9J	<0.9U	<0.9U
	12/29/2014	<1.8U	<2.3U	<4.1U	<4.5U	<4.5U
	3/30/2015	<5U	<5U	1,600	<5U	900
	3/30/2015	<40U	<40U	2,100	<40U	1,300
	6/25/2015	<20U	<20U	500	<20U	180
	6/25/2015	<40U	<40U	1,500	<40U	430
	9/29/2015	<10U	<10U	310	<10U	160
	3/30/2016	<5U	<5U	2,600	<5U	1,400
	3/30/2016	<10U	<10U	610	<10U	310
	7/6/2016	<3.6U	<4.6U	450	<9U	320
	7/6/2016	<3.6U	<4.6U	810	<9U	460
	9/22/2016	<3.6U	<4.6U	480	<9U	810
	9/22/2016	<3.6U	<4.6U	430	<9U	760
	12/20/2016	<0.72U	<0.92U	90	<1.8U	61
	12/20/2016	<0.72U	<0.92U	96	<1.8U	63
	5/31/2017	<3.6U	<4.6U	490	<9U	310
	11/29/2017	<0.36U	<0.46U	1	<0.9U	<0.9U
	5/31/2018	<3.6U	<4.6U	620	<9U	740
	12/18/2018	<1.4U	<1.8U	120	<3.6U	110

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Syracuse Label Co. Inc.
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BCP Site #C734118

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		Tetrachloroethene	Trichloroethene	cis-1,2-dichloroethene	trans-1,2-dichloroethene	Vinyl chloride
		µg/L	µg/L	µg/L	µg/L	µg/L
Regulatory Standard		5	5	5	5	2
Sample ID	Date Sampled					
MW-09	6/25/2015	<1U	<1U	<1U	<1U	<1U
MW-10	9/11/2011	<0.81U	<0.62U	93	<0.76U	13
	3/30/2012	<1U	<1U	54	<1U	12
	3/30/2012	<1U	<1U	56	<1U	13
	12/20/2012	<1U	<1U	90	<1U	13
	6/19/2014	<5U	<5U	<5U	<5U	<5U
	6/25/2015	<5U	<5U	<5U	<5U	<5U
	7/7/2016	<0.36U	<0.46U	<0.81U	<0.9U	0.98J
	11/29/2017	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U
	12/18/2018	-	-	-	-	-
MW-11	3/1/2008	14,000	2,400	-	<1,000U	<1,000U
	2/11/2010	20,000	6,100	4,400	<76U	270J
	2/11/2011	42,000	6,300	3,800	<380U	<500U
	3/11/2011	4,200	1,100	39,000	<150U	<200U
	4/11/2011	2,200J	<310U	77,000	<380U	<500U
	6/11/2011	<810U	<620U	58,000	<760U	<990U
	8/11/2011	<410U	390J	49,000	<380U	1,100J
	9/11/2011	370J	480J	45,000	<300U	680J
	3/30/2012	58	40	53,000	16	2,700
	6/28/2012	<40U	<40U	47,000	<40U	3,500
	9/14/2012	<800U	<800U	59,000	<800U	4,300
	12/21/2012	<800U	<800U	45,000	<800U	4,200
	3/28/2013	<800U	<800U	37,000	<800U	4,900
	6/28/2013	<100U	<100U	9,600	<100U	560
	9/27/2013	<200U	<200U	20,000	<200U	3,200
	12/19/2013	<50U	<50U	3,300	<50U	1,800
	3/27/2014	<40U	<40U	2,800	<40U	3,200
	6/19/2014	<20U	<20U	500	<20U	930
	9/30/2014	<25U	<25U	110	<25U	250
	12/30/2014	<1.4U	<1.8U	68	<3.6U	190
	3/31/2015	<4U	<4U	63	<4U	110
	6/25/2015	<4U	<4U	<4U	<4U	5.6
	9/29/2015	<4U	<4U	<4U	<4U	5.4
	12/29/2015	<4U	<4U	<4U	<4U	<4U
	3/31/2016	<4U	<4U	<4U	<4U	<4U
	7/7/2016	<1.4U	<1.8U	<3.2U	<3.6U	<3.6U
	9/23/2016	<1.4U	<1.8U	<3.2U	<3.6U	<3.6U
	12/20/2016	<1.4U	<1.8U	<3.2U	<3.6U	<3.6U
	11/29/2017	<1.4U	<1.8U	<3.2U	<3.6U	<3.6U
	12/18/2018	<1.4U	<1.8U	<3.2U	<3.6U	<3.6U

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Syracuse Label Co. Inc.
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		Tetrachloroethene	Trichloroethene	cis-1,2-dichloroethene	trans-1,2-dichloroethene	Vinyl chloride
		µg/L	µg/L	µg/L	µg/L	µg/L
Regulatory Standard		5	5	5	5	2
Sample ID	Date Sampled					
MW-12	3/1/2008	1,200	280	-	<20U	<20U
	2/1/2010	220	79	670	<3.8U	18J
	6/11/2011	23J	<12U	1,000	<15U	45J
	8/11/2011	20J	16J	480	<7.6U	100
	9/11/2011	17	15	350	<1.5U	66
	3/30/2012	8.1	6.9	280	<1U	95
	6/28/2012	7.4	6.8	250	<5U	57
	9/14/2012	22	17	310	<5U	64
	12/21/2012	13	15	250	<5U	58
	3/29/2013	<5U	<5U	93	<5U	4.9J
	6/28/2013	33	26	2,400	<5U	63
	9/27/2013	<40U	<40U	1,800	<40U	220
	12/19/2013	<10U	<10U	500	<10U	130
	3/27/2014	<5U	<5U	54	<5U	18
	6/19/2014	<5U	<5U	8.9	<5U	<5U
	9/30/2014	<1.7U	<1.7U	2.8	<1.7U	1.2J
	12/30/2014	<0.36U	<0.46U	1.7	<0.9U	<0.9U
	3/31/2015	<1U	<1U	1	<1U	<1U
	6/25/2015	<1U	<1U	<1U	<1U	<1U
	9/29/2015	<1U	<1U	0.82J	<1U	<1U
	12/29/2015	<1U	<1U	0.88J	<1U	<1U
	3/31/2016	<1U	<1U	0.82J	<1U	<1U
	7/7/2016	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U
	9/23/2016	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U
	12/20/2016	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U
	5/31/2017	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U
	11/29/2017	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U
	5/31/2018	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U
	12/18/2018	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U

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		µg/L	µg/L	µg/L	µg/L	µg/L
Regulatory Standard		5	5	5	5	2
Sample ID	Date Sampled					
MW-13	3/1/2008	900	470	-	<100U	<100U
	2/1/2010	410	600	780	12J	29
	6/11/2011	1,300	1,300	12,000	<150U	300J
	8/11/2011	2,500	1,800	11,000	<150U	220J
	9/11/2011	2,800	2,000	7,800	<76U	140J
	3/30/2012	1,900	1,300	8,900	14	470
	6/28/2012	2,400	1,400	9,200	<100U	290
	9/14/2012	3,300	1,900	9,700	<100U	440
	12/21/2012	5,100	2,600	8,400	<100U	480
	3/29/2013	4,600	2,500	9,600	<100U	500
	6/28/2013	4,100	2,300	11,000	<100U	220
	9/27/2013	4,000	2,100	11,000	<200U	450
	12/19/2013	2,100	1,100	16,000	<200U	370
	3/27/2014	250	160J	35,000	<200U	1,100
	6/19/2014	<800U	<800U	37,000	<800U	<800U
	9/30/2014	<830U	<830U	12,000	<830U	1,500
	12/30/2014	<180U	<230U	24,000	<450U	6,300
	3/31/2015	<200U	<200U	8,200	<200U	3,100
	6/25/2015	<200U	<200U	9,500	<200U	3,400
	9/29/2015	<200U	<200U	7,300	<200U	3,700
	12/29/2015	<200U	<200U	5,200	<200U	3,600
	3/31/2016	<200U	<200U	4,700	<200U	5,300
	7/7/2016	<18U	<23U	1,500	<45U	3,200
	9/23/2016	<18U	<23U	330	<45U	1,200
	12/20/2016	<72U	<92U	1,100	<180U	5,200
	5/31/2017	<0.72U	<0.92U	22	<1.8U	200
	11/29/2017	<0.72U	<0.92U	2.6	<1.8U	23
	5/31/2018	<0.72U	<0.92U	<1.6U	<1.8U	1.9J
	12/18/2018	<0.72U	<0.92U	<1.6U	<1.8U	<1.8U

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		µg/L	µg/L	µg/L	µg/L	µg/L
Regulatory Standard		5	5	5	5	2
Sample ID	Date Sampled					
MW-17	2/1/2010	14,000	2,000	750	<76U	<99U
	2/2/2011	14,000	2,700	1,900	<150U	<200U
	2/11/2011	8,800	1,400	1,000	<76U	<99U
	3/3/2011	4,000	1,000	740	<30U	<40U
	3/11/2011	6,300	1,200	780	<30U	<40U
	4/4/2011	11,000	2,000	1,200	<76U	<99U
	4/11/2011	6,900	1,800	1,400	<38U	<50U
	6/11/2011	7,600	1,000	940	<76U	<99U
	8/11/2011	<200U	<160U	21,000	<190U	360J
	9/11/2011	<81U	<62U	12,000	<76U	1,800
	3/30/2012	9.7	6.5	2,700	6.6	990
	6/28/2012	3.6	7	4,300	<1U	1,800
	9/14/2012	<50U	<50U	3,500	<50U	1,200
	12/21/2012	<50U	<50U	3,800	<50U	2,100
	3/29/2013	<10U	<10U	570	<10U	410
	6/28/2013	<10U	<10U	560	<10U	320
	9/27/2013	<10U	<10U	360	<10U	470
	12/19/2013	<10U	<10U	2,400	14	1,200
	3/27/2014	<10U	<10U	<10U	<10U	38
	6/19/2014	<1U	<1U	4.4	<1U	32
	9/30/2014	<4U	<4U	<4U	<4U	37
	12/30/2014	<0.36U	<0.46U	1.1	<0.9U	20
	3/31/2015	<1U	<1U	<1U	<1U	16
	6/25/2015	<1U	<1U	1.1	<1U	9.5
	9/29/2015	<1U	<1U	<1U	<1U	14
	12/29/2015	<1U	<1U	<1U	<1U	1.6
	3/31/2016	<1U	<1U	<1U	<1U	<1U
	7/7/2016	<0.36U	<0.46U	<0.81U	<0.9U	1.1
	9/23/2016	<0.36U	<0.46U	<0.81U	<0.9U	1.9
	12/20/2016	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U

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		Tetrachloroethene	Trichloroethene	cis-1,2-dichloroethene	trans-1,2-dichloroethene	Vinyl chloride
		µg/L	µg/L	µg/L	µg/L	µg/L
Regulatory Standard		5	5	5	5	2
Sample ID	Date Sampled					
MW-18	10/2/2010	<0.81U	<0.62U	<0.99U	<0.76U	2.7J
	9/11/2011	<0.81U	<0.62U	13	<0.76U	17
	3/30/2012	<1U	<1U	29	<1U	9.2
	12/20/2012	<1U	<1U	5.5	<1U	<1U
	6/19/2014	<1U	<1U	230	<1U	30
	12/29/2014	<1.8U	<2.3U	75	<4.5U	9
	6/25/2015	<5U	<5U	350	<5U	31
	12/30/2015	<5U	<5U	160	<5U	15
	7/7/2016	<1.8U	<2.3U	460	<4.5U	58
	9/22/2016	<1.8U	<2.3U	65	<4.5U	<4.5U
	5/31/2017	<1.8U	<2.3U	610	<4.5U	86
	11/29/2017	<1.8U	<2.3U	470	<4.5U	92
	5/31/2018	<1.8U	<2.3U	670	<4.5U	96
	12/18/2018	<1.8U	<2.3U	940	<4.5U	140
MW-19	10/2/2010	<0.81U	<0.62U	<0.99U	<0.76U	<0.99U
	9/11/2011	<0.81U	<0.62U	<0.99U	<0.76U	<0.99U
	3/30/2012	<1U	<1U	<1U	<1U	<1U
	12/20/2012	<1U	<1U	<1U	<1U	<1U
	12/20/2012	<1U	<1U	<1U	<1U	<1U
	6/19/2014	<1U	<1U	<1U	<1U	<1U
	12/29/2014	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U
	6/25/2015	<1U	<1U	<1U	<1U	<1U
	12/30/2015	<1U	<1U	<1U	<1U	<1U
	7/7/2016	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U
	9/22/2016	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U
	11/29/2017	<0.36U	<0.46U	<0.81U	<0.9U	<0.9U
	12/18/2018	<0.72U	<0.92U	<1.6U	<1.8U	<1.8U

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4. (-) - Not analyzed for
5. Feb-11, Mar-11, and Apr-11 data represents pilot test baseline, 1st post-pilot test sampling event, and 2nd post-pilot test sampling event, respectively
6. Jun-11, Aug-11, and Sep-11 data represents full scale ISCR injection baseline, 1st post-ISCR sampling event, and 2nd post-ISCR sampling event, respectively
7. Bold and highlighted result indicates an exceedance of applicable Regulatory Standard



Attachments



Attachment A

Laboratory Analytical Report for Groundwater Samples

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: 480-146999-1

Client Project/Site: 110 Luther Avenue

For:

GHD Services Inc.

One Remington Park Drive

Cazenovia, New York 13035

Attn: Ian McNamara



Authorized for release by:

12/31/2018 10:17:52 AM

Mary Schwartzmyer, Project Manager I

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Designee for

Melissa Deyo, Project Manager I

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LINKS

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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: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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)

Case Narrative

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Job ID: 480-146999-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-146999-1

Receipt

The samples were received on 12/19/2018 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-19 (480-146999-1), MW-11 (480-146999-6), MW-13 (480-146999-7) and MW-7 (480-146999-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-18 (480-146999-2), MW-1 (480-146999-3) and MW-8 (480-146999-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-18 (480-146999-2). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Client Sample ID: MW-19

Lab Sample ID: 480-146999-1

No Detections.

Client Sample ID: MW-18

Lab Sample ID: 480-146999-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	880	E	5.0	4.1	ug/L	5		8260C	Total/NA
Vinyl chloride	140		5.0	4.5	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene - DL	940		20	16	ug/L	20		8260C	Total/NA
Vinyl chloride - DL	150		20	18	ug/L	20		8260C	Total/NA

Client Sample ID: MW-1

Lab Sample ID: 480-146999-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	550		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride	380		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 480-146999-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	120		4.0	3.2	ug/L	4		8260C	Total/NA
Vinyl chloride	110		4.0	3.6	ug/L	4		8260C	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 480-146999-5

No Detections.

Client Sample ID: MW-11

Lab Sample ID: 480-146999-6

No Detections.

Client Sample ID: MW-13

Lab Sample ID: 480-146999-7

No Detections.

Client Sample ID: MW-7

Lab Sample ID: 480-146999-8

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 480-146999-9

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Client Sample ID: MW-19
Date Collected: 12/18/18 11:35
Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			12/19/18 14:02	2
Tetrachloroethene	ND		2.0	0.72	ug/L			12/19/18 14:02	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			12/19/18 14:02	2
Trichloroethene	ND		2.0	0.92	ug/L			12/19/18 14:02	2
Vinyl chloride	ND		2.0	1.8	ug/L			12/19/18 14:02	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120					12/19/18 14:02	2
4-Bromofluorobenzene (Surr)	100		73 - 120					12/19/18 14:02	2
Toluene-d8 (Surr)	101		80 - 120					12/19/18 14:02	2
Dibromofluoromethane (Surr)	101		75 - 123					12/19/18 14:02	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Client Sample ID: MW-18
Date Collected: 12/18/18 11:45
Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	880	E	5.0	4.1	ug/L			12/19/18 14:25	5
Tetrachloroethene	ND		5.0	1.8	ug/L			12/19/18 14:25	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			12/19/18 14:25	5
Trichloroethene	ND		5.0	2.3	ug/L			12/19/18 14:25	5
Vinyl chloride	140		5.0	4.5	ug/L			12/19/18 14:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/19/18 14:25	5
4-Bromofluorobenzene (Surr)	103		73 - 120		12/19/18 14:25	5
Toluene-d8 (Surr)	100		80 - 120		12/19/18 14:25	5
Dibromofluoromethane (Surr)	103		75 - 123		12/19/18 14:25	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	940		20	16	ug/L			12/20/18 00:40	20
Tetrachloroethene	ND		20	7.2	ug/L			12/20/18 00:40	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			12/20/18 00:40	20
Trichloroethene	ND		20	9.2	ug/L			12/20/18 00:40	20
Vinyl chloride	150		20	18	ug/L			12/20/18 00:40	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		12/20/18 00:40	20
4-Bromofluorobenzene (Surr)	100		73 - 120		12/20/18 00:40	20
Toluene-d8 (Surr)	99		80 - 120		12/20/18 00:40	20
Dibromofluoromethane (Surr)	100		75 - 123		12/20/18 00:40	20

Client Sample Results

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Client Sample ID: MW-1
Date Collected: 12/18/18 12:30
Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	550		10	8.1	ug/L			12/20/18 01:02	10
Tetrachloroethene	ND		10	3.6	ug/L			12/20/18 01:02	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			12/20/18 01:02	10
Trichloroethene	ND		10	4.6	ug/L			12/20/18 01:02	10
Vinyl chloride	380		10	9.0	ug/L			12/20/18 01:02	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					12/20/18 01:02	10
4-Bromofluorobenzene (Surr)	102		73 - 120					12/20/18 01:02	10
Toluene-d8 (Surr)	100		80 - 120					12/20/18 01:02	10
Dibromofluoromethane (Surr)	110		75 - 123					12/20/18 01:02	10

Client Sample Results

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Client Sample ID: MW-8
Date Collected: 12/18/18 12:40
Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	120		4.0	3.2	ug/L			12/20/18 01:25	4
Tetrachloroethene	ND		4.0	1.4	ug/L			12/20/18 01:25	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			12/20/18 01:25	4
Trichloroethene	ND		4.0	1.8	ug/L			12/20/18 01:25	4
Vinyl chloride	110		4.0	3.6	ug/L			12/20/18 01:25	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					12/20/18 01:25	4
4-Bromofluorobenzene (Surr)	102		73 - 120					12/20/18 01:25	4
Toluene-d8 (Surr)	101		80 - 120					12/20/18 01:25	4
Dibromofluoromethane (Surr)	102		75 - 123					12/20/18 01:25	4

Client Sample Results

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Client Sample ID: MW-12
Date Collected: 12/18/18 13:25
Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/19/18 15:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/19/18 15:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/19/18 15:35	1
Trichloroethene	ND		1.0	0.46	ug/L			12/19/18 15:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/19/18 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		12/19/18 15:35	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/19/18 15:35	1
Toluene-d8 (Surr)	100		80 - 120		12/19/18 15:35	1
Dibromofluoromethane (Surr)	97		75 - 123		12/19/18 15:35	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Client Sample ID: MW-11
Date Collected: 12/18/18 13:40
Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			12/19/18 15:58	4
Tetrachloroethene	ND		4.0	1.4	ug/L			12/19/18 15:58	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			12/19/18 15:58	4
Trichloroethene	ND		4.0	1.8	ug/L			12/19/18 15:58	4
Vinyl chloride	ND		4.0	3.6	ug/L			12/19/18 15:58	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/19/18 15:58	4
4-Bromofluorobenzene (Surr)	104		73 - 120		12/19/18 15:58	4
Toluene-d8 (Surr)	101		80 - 120		12/19/18 15:58	4
Dibromofluoromethane (Surr)	104		75 - 123		12/19/18 15:58	4

Client Sample Results

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Client Sample ID: MW-13
Date Collected: 12/18/18 13:55
Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			12/19/18 16:21	2
Tetrachloroethene	ND		2.0	0.72	ug/L			12/19/18 16:21	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			12/19/18 16:21	2
Trichloroethene	ND		2.0	0.92	ug/L			12/19/18 16:21	2
Vinyl chloride	ND		2.0	1.8	ug/L			12/19/18 16:21	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					12/19/18 16:21	2
4-Bromofluorobenzene (Surr)	102		73 - 120					12/19/18 16:21	2
Toluene-d8 (Surr)	99		80 - 120					12/19/18 16:21	2
Dibromofluoromethane (Surr)	103		75 - 123					12/19/18 16:21	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Client Sample ID: MW-7
Date Collected: 12/18/18 14:20
Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			12/19/18 16:44	4
Tetrachloroethene	ND		4.0	1.4	ug/L			12/19/18 16:44	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			12/19/18 16:44	4
Trichloroethene	ND		4.0	1.8	ug/L			12/19/18 16:44	4
Vinyl chloride	ND		4.0	3.6	ug/L			12/19/18 16:44	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/19/18 16:44	4
4-Bromofluorobenzene (Surr)	103		73 - 120		12/19/18 16:44	4
Toluene-d8 (Surr)	102		80 - 120		12/19/18 16:44	4
Dibromofluoromethane (Surr)	102		75 - 123		12/19/18 16:44	4

Client Sample Results

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Client Sample ID: Trip Blank

Date Collected: 12/18/18 15:00

Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/19/18 17:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/19/18 17:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/19/18 17:07	1
Trichloroethene	ND		1.0	0.46	ug/L			12/19/18 17:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/19/18 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		12/19/18 17:07	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/19/18 17:07	1
Toluene-d8 (Surr)	102		80 - 120		12/19/18 17:07	1
Dibromofluoromethane (Surr)	102		75 - 123		12/19/18 17:07	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	TOL (80-120)	DBFM (75-123)
480-146999-1	MW-19	98	100	101	101
480-146999-2	MW-18	102	103	100	103
480-146999-2 - DL	MW-18	98	100	99	100
480-146999-3	MW-1	100	102	100	110
480-146999-4	MW-8	99	102	101	102
480-146999-5	MW-12	96	101	100	97
480-146999-6	MW-11	101	104	101	104
480-146999-7	MW-13	99	102	99	103
480-146999-8	MW-7	102	103	102	102
480-146999-9	Trip Blank	99	102	102	102
LCS 480-451560/5	Lab Control Sample	96	104	100	101
LCS 480-451776/9	Lab Control Sample	96	106	104	99
MB 480-451560/7	Method Blank	96	103	102	99
MB 480-451776/7	Method Blank	93	102	102	98

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

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

Lab Sample ID: MB 480-451560/7

Matrix: Water

Analysis Batch: 451560

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/19/18 09:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/19/18 09:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/19/18 09:53	1
Trichloroethene	ND		1.0	0.46	ug/L			12/19/18 09:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/19/18 09:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		12/19/18 09:53	1
4-Bromofluorobenzene (Surr)	103		73 - 120		12/19/18 09:53	1
Toluene-d8 (Surr)	102		80 - 120		12/19/18 09:53	1
Dibromofluoromethane (Surr)	99		75 - 123		12/19/18 09:53	1

Lab Sample ID: LCS 480-451560/5

Matrix: Water

Analysis Batch: 451560

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	25.0	23.9		ug/L		96	74 - 124
Tetrachloroethene	25.0	24.1		ug/L		96	74 - 122
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	73 - 127
Trichloroethene	25.0	22.8		ug/L		91	74 - 123
Vinyl chloride	25.0	21.4		ug/L		86	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Lab Sample ID: MB 480-451776/7

Matrix: Water

Analysis Batch: 451776

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/19/18 22:25	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/19/18 22:25	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/19/18 22:25	1
Trichloroethene	ND		1.0	0.46	ug/L			12/19/18 22:25	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/19/18 22:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120		12/19/18 22:25	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/19/18 22:25	1
Toluene-d8 (Surr)	102		80 - 120		12/19/18 22:25	1
Dibromofluoromethane (Surr)	98		75 - 123		12/19/18 22:25	1

TestAmerica Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

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

Lab Sample ID: LCS 480-451776/9

Matrix: Water

Analysis Batch: 451776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
Tetrachloroethene	25.0	24.8		ug/L		99	74 - 122
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	73 - 127
Trichloroethene	25.0	22.6		ug/L		90	74 - 123
Vinyl chloride	25.0	20.0		ug/L		80	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		77 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	99		75 - 123

QC Association Summary

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

GC/MS VOA

Analysis Batch: 451560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-146999-1	MW-19	Total/NA	Water	8260C	
480-146999-2	MW-18	Total/NA	Water	8260C	
480-146999-5	MW-12	Total/NA	Water	8260C	
480-146999-6	MW-11	Total/NA	Water	8260C	
480-146999-7	MW-13	Total/NA	Water	8260C	
480-146999-8	MW-7	Total/NA	Water	8260C	
480-146999-9	Trip Blank	Total/NA	Water	8260C	
MB 480-451560/7	Method Blank	Total/NA	Water	8260C	
LCS 480-451560/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 451776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-146999-2 - DL	MW-18	Total/NA	Water	8260C	
480-146999-3	MW-1	Total/NA	Water	8260C	
480-146999-4	MW-8	Total/NA	Water	8260C	
MB 480-451776/7	Method Blank	Total/NA	Water	8260C	
LCS 480-451776/9	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Client Sample ID: MW-19

Date Collected: 12/18/18 11:35

Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	451560	12/19/18 14:02	NMC	TAL BUF

Client Sample ID: MW-18

Date Collected: 12/18/18 11:45

Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	451560	12/19/18 14:25	NMC	TAL BUF
Total/NA	Analysis	8260C	DL	20	451776	12/20/18 00:40	AMM	TAL BUF

Client Sample ID: MW-1

Date Collected: 12/18/18 12:30

Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	451776	12/20/18 01:02	AMM	TAL BUF

Client Sample ID: MW-8

Date Collected: 12/18/18 12:40

Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	451776	12/20/18 01:25	AMM	TAL BUF

Client Sample ID: MW-12

Date Collected: 12/18/18 13:25

Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451560	12/19/18 15:35	NMC	TAL BUF

Client Sample ID: MW-11

Date Collected: 12/18/18 13:40

Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	451560	12/19/18 15:58	NMC	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Client Sample ID: MW-13

Date Collected: 12/18/18 13:55

Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	451560	12/19/18 16:21	NMC	TAL BUF

Client Sample ID: MW-7

Date Collected: 12/18/18 14:20

Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	451560	12/19/18 16:44	NMC	TAL BUF

Client Sample ID: Trip Blank

Date Collected: 12/18/18 15:00

Date Received: 12/19/18 01:00

Lab Sample ID: 480-146999-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451560	12/19/18 17:07	NMC	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: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: GHD Services Inc.
Project/Site: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

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: 110 Luther Avenue

TestAmerica Job ID: 480-146999-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-146999-1	MW-19	Water	12/18/18 11:35	12/19/18 01:00
480-146999-2	MW-18	Water	12/18/18 11:45	12/19/18 01:00
480-146999-3	MW-1	Water	12/18/18 12:30	12/19/18 01:00
480-146999-4	MW-8	Water	12/18/18 12:40	12/19/18 01:00
480-146999-5	MW-12	Water	12/18/18 13:25	12/19/18 01:00
480-146999-6	MW-11	Water	12/18/18 13:40	12/19/18 01:00
480-146999-7	MW-13	Water	12/18/18 13:55	12/19/18 01:00
480-146999-8	MW-7	Water	12/18/18 14:20	12/19/18 01:00
480-146999-9	Trip Blank	Water	12/18/18 15:00	12/19/18 01:00

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-146999-1

Login Number: 146999

List Source: TestAmerica Buffalo

List Number: 1

Creator: Velickovic, Zoran

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	SYR
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



Attachment B

Groundwater Field Sampling Logs



Groundwater Field Sampling Log

Site Name: 110 Luther Avenue

Date: 12/18/2018

Project #: 86-14941

Sampler(s): IEM

Sample ID: MW-1

Sample Time: 12:30

Well Information:

Depth of Well (Top of PVC): 11.48 ft.
Initial Static Water Level (Top of PVC): 1.7 ft.
Depth to LNAPL/DNAPL (Top of PVC):
LNAPL/DNAPL Thickness (inches):

Well Volume Calculation:

1 in. Casing: 9.78 ft. of water x .04 = 0.39 gallons
2 in. Casing: ft. of water x .16 = gallons
3 in. Casing: ft. of water x .36 = gallons
4 in. Casing: ft. of water x .64 = gallons

Evacuation Method:

Submersible: Centrifugal:
Airlift: Pos. Displ.:
Bailer: X Ded. Pump:

Volume of Water Removed: 0.6 gallons

> 3 Volumes: yes no

Dry: yes no

Field Tests:

	Units:		Units:
Temperature: 9.10	°C	pH: 7.38	units
Salinity:	%	ORP: -80.2	mV
Spec. Cond.: 2.062	uS/cm	Turbidity: 43.0	NTU
Diss. Oxygen: 2.19	mg/L		

Sampling Method:

Stainless Bailer:
Teflon Bailer:
Pos. Disp. Pump:
Dis. Bailer: X
Ded. Pump:
Other:

Analysis: Chlorinated VOCs - 8260

Observations:

Weather: 25° F, Overcast, Snow Flurries

Physical Appearance and Odor of Sample: Water slight black tint, slight odor, no sheen

Additional Comments: Field parameters collected using a YSI ProDSS after sample collection

Well was allowed to recover for several hours following purging and prior to sampling



Groundwater Field Sampling Log

Site Name: 110 Luther Avenue

Date: 12/18/2018

Project #: 86-14941

Sampler(s): IEM

Sample ID: MW-7

Sample Time: 14:20

Well Information:

Depth of Well (Top of PVC): 16.65 ft.
Initial Static Water Level (Top of PVC): 2.26 ft.
Depth to LNAPL/DNAPL (Top of PVC):
LNAPL/DNAPL Thickness (inches):

Well Volume Calculation:

1 in. Casing: ft. of water x .04 = gallons
2 in. Casing: 14.39 ft. of water x .16 = 2.30 gallons
3 in. Casing: ft. of water x .36 = gallons
4 in. Casing: ft. of water x .64 = gallons

Evacuation Method:

Submersible: Centrifugal:
Airlift: Pos. Displ.:
Bailer: X Ded. Pump:

Volume of Water Removed: 3 gallons

> 3 Volumes: yes no

Dry: yes no

Field Tests:

Temperature: 12.9 °C
Salinity: %
Spec. Cond.: 2.588 uS/cm
Diss. Oxygen: 2.06 mg/L

Units:

pH: 6.79 units
ORP: -80.8 mV
Turbidity: 10 NTU

Sampling Method:

Stainless Bailer:
Teflon Bailer:
Pos. Disp. Pump:
Dis. Bailer: X
Ded. Pump:
Other:

Analysis:

Chlorinated VOCs - 8260

Observations:

Weather: 25° F, Overcast, Snow Flurries

Physical Appearance and Odor of Sample: Water clear, slight odor, no sheen

Additional Comments: Field parameters collected using a YSI ProDSS after sample collection

Well was allowed to recover for several hours following purging and prior to sampling



Groundwater Field Sampling Log

Site Name: 110 Luther Avenue

Date: 12/18/2018

Project #: 86-14941

Sampler(s): IEM

Sample ID: MW-8

Sample Time: 12:40

Well Information:

Depth of Well (Top of PVC): 17.00 ft.
Initial Static Water Level (Top of PVC): 2.26 ft.
Depth to LNAPL/DNAPL (Top of PVC):
LNAPL/DNAPL Thickness (inches):

Well Volume Calculation:

1 in. Casing: ft. of water x .04 = gallons
2 in. Casing: 14.74 ft. of water x .16 = 2.36 gallons
3 in. Casing: ft. of water x .36 = gallons
4 in. Casing: ft. of water x .64 = gallons

Evacuation Method:

Submersible: Centrifugal:
Airlift: Pos. Displ.:
Bailer: X Ded. Pump:

Volume of Water Removed: 6 gallons

> 3 Volumes: yes no
Dry: yes no

Field Tests:

Units: Units:
Temperature: 12.6 °C pH: 7.04 units
Salinity: % ORP: -81.0 mV
Spec. Cond.: 2.535 uS/cm Turbidity: 0.4 NTU
Diss. Oxygen: 1.89 mg/L

Sampling Method:

Stainless Bailer:
Teflon Bailer:
Pos. Disp. Pump:
Dis. Bailer: X
Ded. Pump:
Other:

Analysis: Chlorinated VOCs - 8260

Observations:

Weather: 25° F, Overcast, Snow Flurries

Physical Appearance and Odor of Sample: Water clear, odor, no sheen

Additional Comments: Field parameters collected using a YSI ProDSS after sample collection

Well was allowed to recover for several hours following purging and prior to sampling



Groundwater Field Sampling Log

Site Name: 110 Luther Avenue

Date: 12/18/2018

Project #: 86-14941

Sampler(s): IEM

Sample ID: MW-10

Sample Time:

Well Information:

Depth of Well (Top of PVC): ft.
Initial Static Water Level (Top of PVC): ft.
Depth to LNAPL/DNAPL (Top of PVC):
LNAPL/DNAPL Thickness (inches):

Well Volume Calculation:

1 in. Casing: ft. of water x .04 = gallons
2 in. Casing: ft. of water x .16 = gallons
3 in. Casing: ft. of water x .36 = gallons
4 in. Casing: ft. of water x .64 = gallons

Evacuation Method:

Submersible: Centrifugal:
Airlift: Pos. Displ.:
Bailer: X Ded. Pump:

Volume of Water Removed: gallons

> 3 Volumes: yes no
Dry: yes no

Field Tests:

	Units:		Units:
Temperature:	°C	pH:	units
Salinity:	%	ORP:	mV
Spec. Cond.:	uS/cm	Turbidity:	NTU
Diss. Oxygen:	mg/L		

Sampling Method:

Stainless Bailer:
Teflon Bailer:
Pos. Disp. Pump:
Dis. Bailer:
Ded. Pump:
Other:

Analysis:

Observations:

Weather: 25° F, Overcast, Snow Flurries

Physical Appearance and Odor of Sample:

Additional Comments:

Well had unknown vehicle parked on it, could not access for sampling.
Attempts to find owner of vehicle at time of sampling were unsuccessful.



Groundwater Field Sampling Log

Site Name: 110 Luther Avenue

Date: 12/18/2018

Project #: 86-14941

Sampler(s): IEM

Sample ID: MW-11

Sample Time: 13:40

Well Information:

Depth of Well (Top of PVC): 15.34 ft.
Initial Static Water Level (Top of PVC): 2.05 ft.
Depth to LNAPL/DNAPL (Top of PVC):
LNAPL/DNAPL Thickness (inches):

Well Volume Calculation:

1 in. Casing: 13.29 ft. of water x .04 = 0.53 gallons
2 in. Casing: ft. of water x .16 = gallons
3 in. Casing: ft. of water x .36 = gallons
4 in. Casing: ft. of water x .64 = gallons

Evacuation Method:

Submersible: Centrifugal:
Airlift: Pos. Displ.:
Bailer: X Ded. Pump:

Volume of Water Removed: 1 gallons

> 3 Volumes: yes no

Dry: yes no

Field Tests:

	Units:		Units:
Temperature: 16.1	°C	pH: 7.09	units
Salinity:	%	ORP: -132.2	mV
Spec. Cond.: 2.918	uS/cm	Turbidity: 1349	NTU
Diss. Oxygen: 2.3	mg/L		

Sampling Method:

Stainless Bailer:
Teflon Bailer:
Pos. Disp. Pump:
Dis. Bailer: X
Ded. Pump:
Other:

Analysis:

Chlorinated VOCs - 8260

Observations:

Weather: 25° F, Overcast, Snow Flurries

Physical Appearance and Odor of Sample: Water rusty orange, sediment, no odor, no sheen

Additional Comments: Field parameters collected using a YSI ProDSS after sample collection

Well was allowed to recover for several hours following purging and prior to sampling



Groundwater Field Sampling Log

Site Name: 110 Luther Avenue

Date: 12/18/2018

Project #: 86-14941

Sampler(s): IEM

Sample ID: MW-12

Sample Time: 13:25

Well Information:

Depth of Well (Top of PVC): 16.00 ft.
Initial Static Water Level (Top of PVC): 1.88 ft.
Depth to LNAPL/DNAPL (Top of PVC):
LNAPL/DNAPL Thickness (inches):

Well Volume Calculation:

1 in. Casing: 14.12 ft. of water x .04 = 0.56 gallons
2 in. Casing: ft. of water x .16 = gallons
3 in. Casing: ft. of water x .36 = gallons
4 in. Casing: ft. of water x .64 = gallons

Evacuation Method:

Submersible: Centrifugal:
Airlift: Pos. Displ.:
Bailer: X Ded. Pump:

Volume of Water Removed: 1 gallons

> 3 Volumes: yes no

Dry: yes no

Field Tests:

	Units:		Units:
Temperature: 15.4	°C	pH: 7.04	units
Salinity:	%	ORP: -88.5	mV
Spec. Cond.: 2.172	uS/cm	Turbidity: 25	NTU
Diss. Oxygen: 1.84	mg/L		

Sampling Method:

Stainless Bailer:
Teflon Bailer:
Pos. Disp. Pump:
Dis. Bailer: X
Ded. Pump:
Other:

Analysis:

Chlorinated VOCs - 8260

Observations:

Weather: 25° F, Overcast, Snow Flurries

Physical Appearance and Odor of Sample: Water slight rusty orange tint, no odor, no sheen

Additional Comments: Field parameters collected using a YSI ProDSS after sample collection

Well was allowed to recover for several hours following purging and prior to sampling



Groundwater Field Sampling Log

Site Name: 110 Luther Avenue

Date: 12/18/2018

Project #: 86-14941

Sampler(s): IEM

Sample ID: MW-13

Sample Time: 13:55

Well Information:

Depth of Well (Top of PVC): 16.10 ft.
Initial Static Water Level (Top of PVC): 2.43 ft.
Depth to LNAPL/DNAPL (Top of PVC):
LNAPL/DNAPL Thickness (inches):

Well Volume Calculation:

1 in. Casing: 13.67 ft. of water x .04 = 0.55 gallons
2 in. Casing: ft. of water x .16 = gallons
3 in. Casing: ft. of water x .36 = gallons
4 in. Casing: ft. of water x .64 = gallons

Evacuation Method:

Submersible: Centrifugal:
Airlift: Pos. Displ.:
Bailer: X Ded. Pump:

Volume of Water Removed: 1 gallons

> 3 Volumes: yes no

Dry: yes no

Field Tests:

	Units:		Units:
Temperature: 16	°C	pH: 6.93	units
Salinity:	%	ORP: -105	mV
Spec. Cond.: 1.916	uS/cm	Turbidity: 25	NTU
Diss. Oxygen: 2.67	mg/L		

Sampling Method:

Stainless Bailer:
Teflon Bailer:
Pos. Disp. Pump:
Dis. Bailer: X
Ded. Pump:
Other:

Analysis: Chlorinated VOCs - 8260

Observations:

Weather: 25° F, Overcast, Snow Flurries

Physical Appearance and Odor of Sample: Water slight rusty orange tint, no odor, no sheen

Additional Comments: Field parameters collected using a YSI ProDSS after sample collection

Well was allowed to recover for several hours following purging and prior to sampling



Groundwater Field Sampling Log

Site Name: 110 Luther Avenue

Date: 12/18/2018

Project #: 86-14941

Sampler(s): IEM

Sample ID: MW-18

Sample Time: 11:45

Well Information:

Depth of Well (Top of PVC): 12.78 ft.
Initial Static Water Level (Top of PVC): 2.21 ft.
Depth to LNAPL/DNAPL (Top of PVC):
LNAPL/DNAPL Thickness (inches):

Well Volume Calculation:

1 in. Casing: ft. of water x .04 = gallons
2 in. Casing: 10.57 ft. of water x .16 = 1.69 gallons
3 in. Casing: ft. of water x .36 = gallons
4 in. Casing: ft. of water x .64 = gallons

Evacuation Method:

Submersible: Centrifugal:
Airlift: Pos. Displ.:
Bailer: X Ded. Pump:

Volume of Water Removed: 3 gallons

> 3 Volumes: yes no

Dry: yes no

Field Tests:

	Units:		Units:
Temperature: 10.8	°C	pH: 7.60	units
Salinity:	%	ORP: -46.8	mV
Spec. Cond.: 1.741	uS/cm	Turbidity: 50.6	NTU
Diss. Oxygen: 1.95	mg/L		

Sampling Method:

Stainless Bailer:
Teflon Bailer:
Pos. Disp. Pump:
Dis. Bailer: X
Ded. Pump:
Other:

Analysis:

Chlorinated VOCs - 8260

Observations:

Weather: 25° F, Overcast, Snow Flurries

Physical Appearance and Odor of Sample: Water slightly turbid brown, no odor, no sheen

Additional Comments: Field parameters collected using a YSI ProDSS after sample collection

Well was allowed to recover for approximately 30 minutes following purging and prior to sampling



Groundwater Field Sampling Log

Site Name: 110 Luther Avenue

Date: 12/18/2018

Project #: 86-14941

Sampler(s): IEM

Sample ID: MW-19

Sample Time: 11:35

Well Information:

Depth of Well (Top of PVC): 13.27 ft.
Initial Static Water Level (Top of PVC): 2.35 ft.
Depth to LNAPL/DNAPL (Top of PVC):
LNAPL/DNAPL Thickness (inches):

Well Volume Calculation:

1 in. Casing: ft. of water x .04 = gallons
2 in. Casing: 10.92 ft. of water x .16 = 1.75 gallons
3 in. Casing: ft. of water x .36 = gallons
4 in. Casing: ft. of water x .64 = gallons

Evacuation Method:

Submersible: Centrifugal:
Airlift: Pos. Displ.:
Bailer: X Ded. Pump:

Volume of Water Removed: 3 gallons

> 3 Volumes: yes no

Dry: yes no

Field Tests:

	Units:		Units:
Temperature: 10.1	°C	pH: 8.17	units
Salinity:	%	ORP: 72.2	mV
Spec. Cond.: 1.508	uS/cm	Turbidity: 172	NTU
Diss. Oxygen: 4.18	mg/L		

Sampling Method:

Stainless Bailer:
Teflon Bailer:
Pos. Disp. Pump:
Dis. Bailer: X
Ded. Pump:
Other:

Analysis: Chlorinated VOCs - 8260

Observations:

Weather: 25° F, Overcast, Snow Flurries

Physical Appearance and Odor of Sample: Water turbid brown, no odor, no sheen

Additional Comments: Field parameters collected using a YSI ProDSS after sample collection

Well was allowed to recover for approximately 30 minutes following purging and prior to sampling



Attachment C

Field Equipment Calibration Sheets

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

405 Cambridge Ave

Syracuse, NY 13208

Toll-free: (877) 903-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 41758

Description YSI Professional Plus

Calibrated 12/5/2018 3:33:05PM

Manufacturer YSI

Model Number PRO PLUS

Serial Number/ Lot 18D102945

Number

Location New York

Department

State Certified

Status Pass

Temp °C 19

Humidity % 41

Calibration Specifications

Group # 1

Group Name PH

Stated Accy Pct of Reading

Range Acc % 0.0000

Reading Acc % 3.0000

Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
7.00 / 7.00	PH	7.00	PH	7.00	7.00	0.00%	Pass
4.00 / 4.00	PH	4.00	PH	4.00	4.00	0.00%	Pass
10.00 / 10.00	PH	10.00	PH	10.00	10.00	0.00%	Pass

Group # 2

Group Name Conductivity

Stated Accy Pct of Range

Range Acc % 3.0000

Reading Acc % 0.0000

Plus/Minus 0.000

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
1.413 / 1.413	ms/cm	1.413	ms/cm	1.413	1.413	0.00%	Pass

Group # 3

Group Name Redox (ORP)

Stated Accy Pct of Range

Range Acc % 3.0000

Reading Acc % 0.0000

Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
240.00 / 240.00	mv	240.00	mv	240.00	240.00	0.00%	Pass

Group # 4

Group Name Dissolved Oxygen (Span)

Stated Accy Pct of Range

Range Acc % 3.0000

Reading Acc % 0.0000

Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
100.00 / 100.00	%	100.00	%	100.00	100.00	0.00%	Pass

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

405 Cambridge Ave
Syracuse, NY 13208
Toll-free: (877) 903-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 41758

Description YSI Professional Plus

Calibrated 12/5/2018 3:33:05PM

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Next Cal Date / Last Cal Date/ Opened Date</u>
NYS COND 1.413 - 6GB770	NYS COND 1.413	Pine Environmental Services, Inc.	31986	6GB770	2/28/2019
NYS ORP 240 - 8039	NYS ORP 240 - 8039	Hanna	240 MV	8039	9/30/2019
NYS PH 10 - 8GE347	NYS PH 10	Pine Environmental Services, Inc.	32034	8GE347	5/31/2020
NYS PH 7 - GE854	NYS PH 7	Pine Environmental Services, Inc.	32025	GE854	5/31/2020
NYS PH4 - 7GB965	NYS PH 4	AquaPhoenix Scientific		7GB965	1/28/2019

Notes about this calibration

Calibration Result Calibration Successful

Who Calibrated Joe Filippi

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

405 Cambridge Ave
Syracuse, NY 13208
Toll-free: (877) 903-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 38756
Description Lamotte 2020we
Calibrated 12/5/2018 1:42:50PM

Manufacturer LaMotte
Model Number 2020we
Serial Number/ Lot Number 8678-5016
Location New York
Department

State Certified
Status Pass
Temp °C 19
Humidity % 45

Calibration Specifications

Group # 1
Group Name Turbidity
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.00 / 0.00	NTU	0.00	NTU	0.00	0.00	0.00%	Pass
1.00 / 1.00	NTU	1.00	NTU	1.00	1.00	0.00%	Pass
10.00 / 10.00	NTU	10.00	NTU	10.00	10.00	0.00%	Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date / Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
NJ TURB 10 NTU LOT: 18023191	10 NTU TURBIDITY STANDARD	GFS	10 NTU	18023191	8/2/2018	6/18/2019
NYS TURB 0 NTU - C796622	0.1 NTU TURBIDITY STANDARD	GFS		C796622		5/21/2019
NYS TURB 1 NTU - 18210687	1 NTU TURBIDITY STANDARD	GFS		18210687		6/18/2019

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Joe Filippi



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

405 Cambridge Ave
Syracuse, NY 13208
Toll-free: (877) 903-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 38756

Description Lamotte 2020we

Calibrated 12/5/2018 1:42:50PM

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

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