

February 8, 2016

Project #14411

Mr. John Hnat
Hydrogeologist
Wisconsin Dept. of Natural Resources
2300 N. Martin Luther King Drive
Milwaukee, WI 53212

RE.: Project Status Update
Village of Whitefish Bay Landfill
5201-W. Good Hope Road, Milwaukee, WI 53223
License Number 356 FID: 241218670 BRRTS: 02-41-000254

Dear Mr. Hnat:

In accordance with the WDNR e-mail dated July 1, 2015, The Sigma Group, Inc. (Sigma) on behalf of the Village of Whitefish Bay (the Village), has initiated a semi-annual groundwater monitoring program at the former landfill site located at 5201 W. Good Hope Road, Milwaukee, Wisconsin (**Figure 1**). The monitoring program is designed to collect groundwater samples from select sampling points to demonstrate ongoing natural attenuation of the dissolved VOC plume at the site. Prior to groundwater sampling activities a damaged piezometer was replaced with a replacement well and all the wells were purged for sampling. The following sections present well installation and groundwater sampling activities.

Replacement Piezometer Installation – A replacement piezometer was installed on the MPS property in September 2015. The replacement piezometer (MPS: P-1R) was installed in the vicinity of the damaged well MPS:P-1 at the northwest corner of the MPS property (**Figure 1**).

On September 18, 2015, Sigma coordinated the mobilization of a Geoprobe drill rig to install the replacement piezometer (screen interval 30 to 35' below ground) using the hollow stem augur (HAS) drilling method. Based on historical soil and groundwater information shallow soil and shallow groundwater at this location were considered clean and therefore, drill cuttings generated from the upper zone (0 to 20') were managed as clean fill. Drill cuttings generated from depth intervals 20 to 35' bgs were considered impacted and contained in two 55-gal drums for waste characterization and disposal.

At the completion of drilling a 5-ft section of PVC screen attached to a 30-ft length of PVC riser was installed per the Wisconsin Administrative Code NR 141 and completed with flush

mount cover. The well was developed on the following week to ensure good hydraulic connection with the underlying saturated materials.

Groundwater Monitoring - Following the well installation activities, Sigma completed the semi-annual groundwater monitoring during the week of September 28, 2015. Consistent with the approved monitoring program select monitoring wells were sampled for water level and in situ field parameters including dissolved oxygen (DO), oxidation-reduction potential (REDOX), pH, conductivity and temperature. The wells were then purged and water samples were collected for laboratory analysis of VOCs. Attached **Tables 1** through **4** include comprehensive summaries of all water level data, water quality data, groundwater inorganic analytical data and in situ biodegradation parameters collected at the site. The groundwater sampling field logs are included in **Appendix A** and laboratory analytical reports are included in **Appendix B**.

The following monitoring wells/piezometers were included in the monitoring program. With the exception of monitoring well MW-E, which was found dry during repeated attempts at sampling, all the selected wells/piezometers were sampled.

Landfill Property: MW-D/PZ-D/MW-22, MW-E/W-MW-10, W-MW-11, MW-4, W-MW-5S and MW-C/PZ-C

MPS Property: MW-26, MPS:P-1 (replacement well), MPS:P-2, MPS:P-3, MPS:P-4, MPS:P-5, MPS:P-6 and MPS:P-7.

Residential Area: MW-11 and P-11.

Groundwater Flow – The groundwater elevation data observed at the site and its vicinity in 2015 was used to interpret the groundwater flow. Consistent with historical observations, the shallow groundwater within the clay unit generally flows to the east and northeast. The mid-depth groundwater flow within the silty sand unit generally occurs to the east-southeast. Further south on the MPS property the mid-depth groundwater flow within the more permeable sand and gravel unit is predominantly to the south and southeast. The direction of deeper groundwater flow within the lower silty clay/bedrock interface zone is also predominantly to the southeast.

Groundwater Quality – A review of the data indicates no petroleum related compounds (toluene, ethyl benzene and xylenes) were detected above the laboratory detection limit or groundwater enforcement standards; however, the presence of chlorinated compounds above the groundwater enforcement standards are evident in several of the sample locations.

Groundwater samples collected from monitoring wells located at the east-central portion of the site (W-MW-5S and PZ-C) continue to exhibit relatively low CVOCs impacts. Review of the historical data collected over the last 20 years continues to suggest decreasing trend of both the parent compounds PCE/TCE and the breakdown compounds cis-1,2-DCE and vinyl chloride at these locations. Although the shallow groundwater flow is to the east-northeast, it is evident that the relatively high groundwater impacts are limited to the southwestern portion of the landfill property and the migration of dissolved CVOCs to the east and north has not occurred.

Review of the groundwater data from monitoring well cluster MW-D/MW-22/PZ-D located at the southwest corner of the site (suspected source area) indicates the presence of relatively high concentrations of CVOCs in groundwater. Please note, a re-sampling was performed in December 2015 at sources area monitoring well MW-D to verify the relatively high concentrations detected during September 2015 sampling event. The results correlate with the historical data and indicates no significant change near the source area over time.

Similar groundwater impacts are also evident at two other sampling points (MW-10 and MW-11) located within the southwest quadrant of the landfill. One parent compound TCE and the daughter compounds Cis-1,2-DCE and vinyl chloride are present at concentrations several orders-of-magnitude higher than their respective groundwater enforcement standards. However, the detected concentrations appear to be stable or decreasing.

Review of the data also indicates the groundwater quality continue to improve further downgradient (south and southeast) of the landfill property. No parent compounds were detected at off-site downgradient locations and the degree of breakdown compounds also appear to decrease further south from the landfill.

Comparison with Historical Data - To further assess the historical trends of the groundwater quality several concentration versus time plots were developed for select on- and off-site wells and are included in **Appendix C**. A review of the plots clearly indicates decreasing or stable concentration trends for all four CVOC constituents at most of the sample locations with the exception of the source area monitoring well MW-D located at the southwest corner of the landfill property.

Also included in **Appendix C** are three plots of groundwater CVOC distribution across several properties which include: the Presidio Apartment Complex to the west, the MPS property to the south and the residential subdivision and the cemetery further south. The plots represent three sampling events: 2002, 2014 and 2015. Based on a review of these distribution plots it is evident that the dissolved CVOC plume is fairly stable over twelve year period, and despite persistently high concentrations at the source area (southeast quadrant of at the landfill property) natural attenuation processes are on-going at the site.

Conclusions – The following conclusions are provided based on recent round of data:

- A review of the time-series data plots continue to indicates decreasing or stable concentration trends for all four CVOC constituents at most of the sample locations.
- Although relatively high CVOC concentrations persist at the source area wells, the groundwater quality downgradient of the source area continues to improve with increasing distance from the landfill.
- The improvements can likely be attributed to the natural attenuation processes on going at the site.

Sigma will continue the semi-annual monitoring program at the selected locations of the site and present the data to WDNR on a periodic basis.

Please do not hesitate to call either of the undersigned at 414-643-4125 if you have any questions or would like to discuss the report.

Sincerely,

THE SIGMA GROUP, INC.



Mafizul Islam, P.E.
Senior Project Engineer






Randy E. Boness, P.G.
Geoscience Group Manager

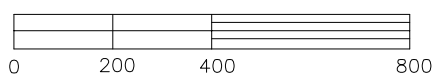
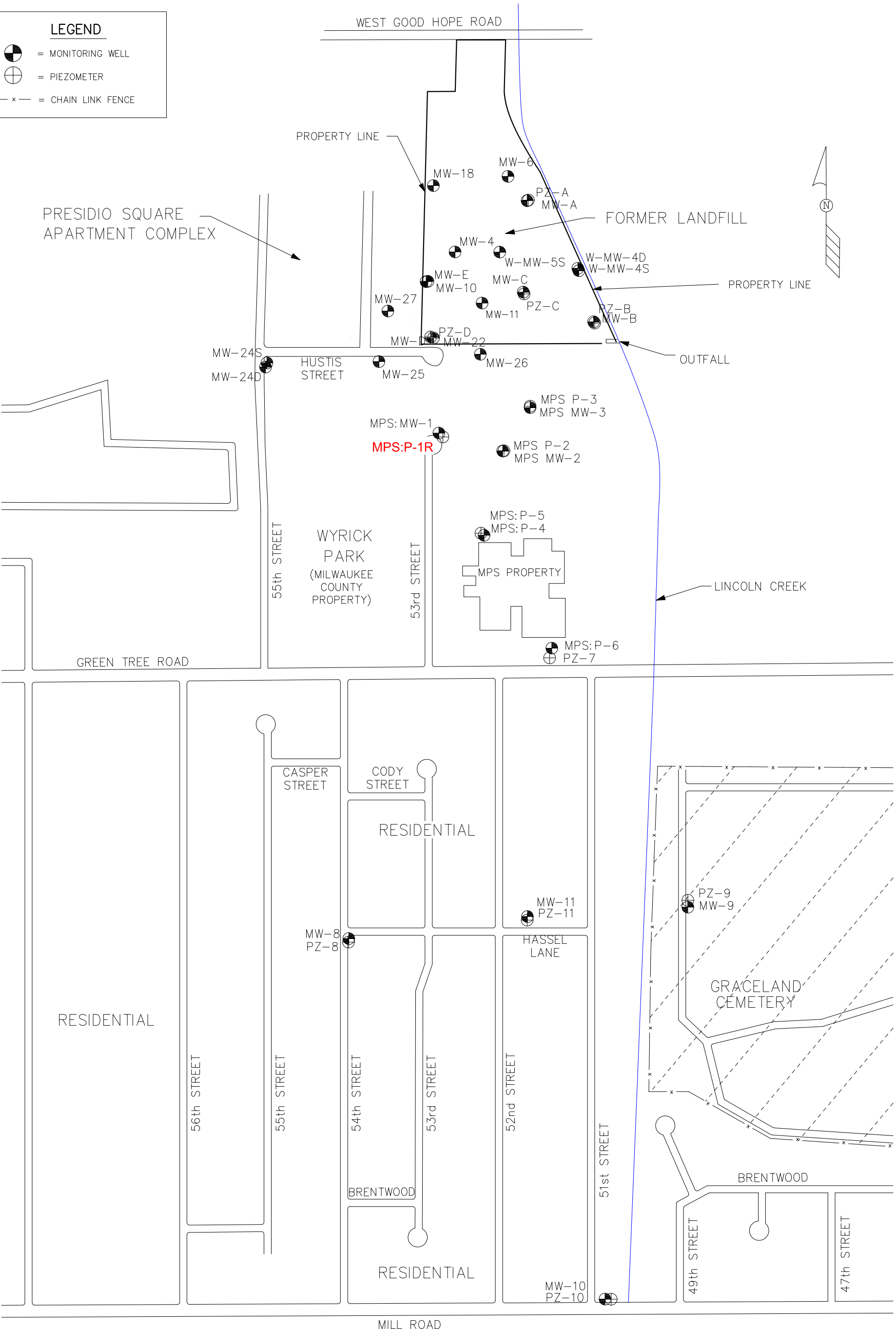
/attachments

cc: Steven Sheiffer / Village of Whitefish Bay


FIGURES

LEGEND

-  = MONITORING WELL
-  = PIEZOMETER
-  = CHAIN LINK FENCE



NOTES:
 1. BOUNDARIES ARE APPROXIMATE.
 2. THIS MAP WAS DEVELOPED FROM A MILWAUKEE COUNTY MAP, THIENSVILLE QUADRANGLE TOPOGRAPHIC MAP, AND SURVEY DATA.

VILLAGE OF WHITEFISH BAY LANDFILL MILWAUKEE, WI			 <small>THE SIGMA GROUP, INC.</small>
DATE: 01-19-15	DR. BY: NKB	DR.# 3125-149	SCALE: 1" = 400'
MONITORING WELL AND PIEZOMETER LOCATIONS			FIGURE 1

TABLES

Table 1 Static Groundwater Level Data Village of Whitefish Bay - Former Good Hope Road Landfill Site Sigma Project No. 3125								
Well ID	DNR Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date
MW-A	VN630	697.36	16.4	10.0	690.96	11.89	685.47	06/19/97
						11.27	686.09	07/21/97
						10.10	687.26	03/27/98
						11.19	686.17	04/29/98
						12.99	684.37	07/15/98
						9.62	687.74	08/18/98
						DRY	DRY	06/26/02
						Well found obstructed at 10.90 ft on 7/21/06		
			11.0			DRY	DRY	12/05/13
						DRY	DRY	12/18/13
						10.65	686.71	06/23/14
						DRY	DRY	09/29/15
PZ-A	VN631	697.20	22.0	3.0	678.20	13.20	684.00	06/19/97
						12.38	684.82	07/21/97
						12.25	684.95	03/27/98
						11.21	685.99	04/29/98
						14.06	683.14	07/15/98
						12.58	684.62	08/18/98
						13.78	683.42	06/26/02
						15.35	681.85	07/21/06
						16.24	680.96	12/05/13
						16.33	680.87	12/18/13
						13.24	683.96	06/23/14
						15.42	681.78	09/29/15
						Obstr. 19.8 ft		
MW-B	---	693.04	15.6	10.0	687.44	8.05	684.99	06/19/97
						7.80	685.24	07/21/97
						5.79	687.25	03/27/98
						5.38	687.66	04/29/98
						8.22	684.82	07/15/98
						7.85	685.19	08/18/98
						10.41	683.22	06/26/02
						(see note 1)		693.63
Well found vandalized and filled w/ debris. Abandoned on 7/21/06								
PZ-B	---	692.61	25.3	5.0	672.31	8.65	683.96	06/19/97
						7.87	684.74	07/21/97
						7.77	684.84	03/27/98
						6.97	685.64	04/29/98
						9.63	682.98	07/15/98
						8.09	684.52	08/18/98
						9.20	683.41	06/26/02
						10.37	682.24	07/21/06
Obstr. 22.55 ft								
Well found vandalized and filled w/ debris. Abandoned on 12/04/13								
MW-C	VN615	700.24	17.0	10.0	693.24	15.78	684.46	06/19/97
						11.97	688.27	07/21/97
						10.22	690.02	03/27/98
						9.29	690.95	04/30/98
						16.50	683.74	07/15/98
						10.02	690.22	08/18/98
						13.42	686.82	06/26/02
						16.55	683.69	07/17/06
						DRY	DRY	12/05/13
						DRY	DRY	12/18/13
						7.23	693.01	06/25/14
						DRY	DRY	09/29/15
						PZ-C	VN616	700.45
15.64	684.81	07/21/97						
15.53	684.92	03/27/98						
14.74	685.71	04/30/98						
17.40	683.05	07/15/98						
15.86	684.59	08/18/98						
16.99	683.46	06/26/02						
18.53	681.92	07/17/06						
19.51	680.94	12/05/13						
19.61	680.84	12/18/13						
16.39	684.06	06/25/14						
18.71	681.74	09/29/15						
		700.45	25.9	5.0	679.55			

Table 1 Static Groundwater Level Data Village of Whitefish Bay - Former Good Hope Road Landfill Site Sigma Project No. 3125														
Well ID	DNR Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date						
MW-D	VN617	709.20	19.1	10.0	700.10	14.20	695.00	06/19/97						
						13.16	696.04	07/21/97						
						12.78	696.42	03/27/98						
						15.01	694.19	07/15/98						
		709.20	19.2	10.0	700.00	13.48	695.72	08/18/98						
						13.65	695.55	06/26/02						
						13.74	695.46	07/17/06						
						18.94	690.26	12/05/13						
						DRY	DRY	12/18/13						
						11.69	697.51	06/23/14						
						18.65	690.55	09/29/15						
						PZ-D	VN618	709.17	31.3	5.0	682.87	25.23	683.94	06/19/97
												24.45	684.72	07/21/97
												24.33	684.84	03/27/98
26.22	682.95	07/15/98												
709.17	31.5	5.0	682.72	24.70	684.47			08/18/98						
				25.75	683.42			06/26/02						
				27.35	681.82			07/17/06						
				28.38	680.79			12/05/13						
				28.46	680.71			12/19/13						
				25.43	683.74			06/23/14						
				27.60	681.57			09/29/15						
				MW-E	VN619			708.68	18.60	10.0	700.08	12.90	685.52	06/19/97
												12.20	686.22	07/21/97
												11.33	697.35	03/27/98
15.37	693.31	07/15/98												
18.98	10.0	699.70	13.18			695.50	08/18/98							
			12.68			696.00	06/26/02							
			18.10			690.58	07/21/06							
			DRY			DRY	12/05/13							
			DRY			DRY	12/19/13							
			DRY			DRY	06/23/14							
19.25	10.0	699.43	DRY	DRY	09/29/15									
			DRY	DRY	09/29/15									
MW-4	VM609	698.42	20.7	5.0	682.77	13.15	685.27	06/07/96						
						16.10	682.32	01/06/97						
						14.40	684.02	06/19/97						
						13.51	684.91	03/27/98						
						15.38	683.04	07/15/98						
						13.86	684.56	08/18/98						
						14.93	683.49	06/26/02						
						16.62	681.80	07/21/06						
						UNABLE TO LOCATE 12/04/13								
												14.54	683.88	6/23/2014
												16.75	681.67	9/29/2015
						MW-6	VN614	703.30	22.3	5.0	686.00	18.42	684.88	06/19/97
												17.40	685.90	07/21/97
												17.11	686.19	03/27/98
15.86	687.44	04/30/98												
703.30	22.0	5.0	686.30	19.57	683.73			07/15/98						
				17.27	686.03			08/18/98						
				18.90	684.40			06/26/02						
				20.88	682.42			07/21/06						
				DRY	DRY			12/18/13						
				18.04	685.26			06/23/14						
				21.24	682.06			09/29/15						
				W-MW-10	VN632			708.69	30.4	5.0	683.29	23.44	685.25	06/07/96
												26.37	682.32	01/06/97
												24.70	683.99	06/19/97
23.81	684.88	03/27/98												
25.68	683.01	07/15/98												
24.15	684.54	08/18/98												
25.22	683.47	06/26/02												
26.92	681.77	07/21/06												
27.82	680.87	12/05/13												
27.93	680.76	12/19/13												
24.87	683.82	06/23/14												
27.06	681.63	09/29/15												

Table 1
 Static Groundwater Level Data
 Village of Whitefish Bay - Former Good Hope Road Landfill Site
 Sigma Project No. 3125

Well ID	DNR Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date						
W-MW-11	VN633	705.29	27.85	5.0	682.44	20.78	684.51	06/07/96						
						23.00	682.29	01/06/97						
						21.31	683.98	06/19/97						
						20.44	684.85	03/27/98						
						22.30	682.99	07/15/98						
						20.78	684.51	08/18/98						
						21.86	683.43	06/26/02						
						15.18	690.11	07/21/06						
						24.55	680.74	12/18/13						
						21.51	683.78	06/23/14						
						23.68	681.61	09/29/15						
MW-18	VN634	703.65	27.5	10.0	686.19	16.42	687.23	06/07/96						
						21.36	682.29	01/06/97						
						19.51	684.14	06/19/97						
						17.60	686.05	03/27/98						
						20.52	683.13	07/15/98						
						17.47	686.18	08/18/98						
						NM	NM	06/26/02						
						21.75	681.90	07/21/06						
						22.66	680.99	12/05/13						
						22.75	680.90	12/18/13						
						17.52	686.13	06/23/14						
21.88	681.77	09/29/15												
MW-22	VN635	709.47	28.4	10.0	691.07	24.31	685.16	06/07/96						
						25.57	683.90	06/19/97						
						24.68	684.79	03/27/98						
						26.54	682.93	07/15/98						
						25.02	684.45	08/18/98						
		709.47				26.07	683.40	06/26/02						
						27.65	681.82	07/17/06						
						28.40	681.07	12/05/13						
						DRY	DRY	12/18/13						
						25.72	683.75	06/23/14						
						27.88	681.59	09/29/15						
MW-25	VN638	705.48	21.8	10.0	693.64	10.54	694.94	06/07/96						
						12.16	693.32	01/06/97						
						11.59	693.89	06/19/97						
						10.86	694.62	03/27/98						
						12.30	693.18	07/15/98						
						11.43	694.05	08/18/98						
						11.25	694.23	06/26/02						
						14.75	690.73	12/17/13						
						14.16	691.32	09/29/15						
						MW-26	VN639	702.47	24.1	10.0	688.39	17.33	685.14	06/07/96
												20.25	682.22	01/06/97
18.57	683.90	06/19/97												
17.82	684.65	07/21/97												
17.69	684.78	03/27/98												
19.55	682.92	07/15/98												
18.03	684.44	08/18/98												
19.09	683.38	06/26/02												
20.79	681.68	07/21/06												
21.70	680.77	12/05/13												
21.79	680.68	12/18/13												
18.68	683.79	06/23/14												
20.92	681.55	09/29/15												

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Well ID	DNR Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date
W-MW-4S	VN640	696.64	18.1	10.0	688.54	8.72	687.92	05/13/98
						10.28	686.36	07/15/98
		695.93	17.9	10.0	688.08	12.53	683.40	06/26/02
						15.25	680.68	12/05/13
						15.33	680.60	12/18/13
						11.77	684.16	06/23/14
14.51	681.42	09/29/15						
W-MW-4D	VN641	695.63	22.8	5.0	677.83	11.90	683.73	05/12/98
						14.10	681.53	07/15/98
		696.92	22.6	5.0	679.37	13.69	683.23	06/26/02
						16.23	680.69	12/05/13
						16.32	680.60	12/18/13
						13.25	683.67	06/23/14
15.42	681.50	09/29/15						
W-MW-5S		696.48	16.4	10.0	690.08	11.38	685.10	05/12/98
						13.94	682.54	07/15/98
		696.73	17.3	10.0	689.43	13.30	683.18	06/26/02
						16.08	680.65	12/05/13
						16.15	680.58	12/18/13
						12.87	683.86	06/25/14
15.28	681.45	09/29/15						
MPS: MW-1	VN643	708.95	18.2	10.0	700.75	9.41	699.54	08/18/98
						8.92	700.03	08/19/98
						9.45	699.50	08/26/98
						9.13	699.82	12/08/00
						9.12	699.83	01/12/01
						7.93	701.02	06/26/02
14.54	694.41	07/17/06						
UNABLE TO LOCATE/DESTROYED 12/04/13								
MPS: P-1	VN644	708.99	32.3	5.0	681.69	24.04	684.95	08/18/98
						25.08	683.91	08/19/98
						25.33	683.66	08/26/98
						27.49	681.50	01/21/99
						27.13	681.86	12/08/00
						27.36	681.63	01/12/01
						26.03	682.96	06/26/02
						27.65	681.34	07/17/06
UNABLE TO LOCATE/DESTROYED 12/04/13								
MPS:P-1R						25.10	683.89	09/29/15
MPS: MW-2	VN645	703.42	17.8	10.0	695.62	DRY	DRY	08/18/98
						DRY	DRY	08/19/98
						DRY	DRY	08/26/98
						16.96	686.46	01/12/01
						16.92	686.50	06/26/02
						17.11	686.31	07/17/06
						DRY	DRY	12/05/13
						DRY	DRY	12/18/13
DRY	DRY	06/23/14						
MPS: P-2	VN646	703.58	33.4	5.0	675.18	19.63	683.95	08/18/98
						19.68	683.90	08/19/98
						19.91	683.67	08/26/98
						22.09	681.49	01/21/99
						21.98	681.60	01/12/01
						20.65	682.93	06/26/02
						22.27	681.31	07/17/06
						23.29	680.29	12/05/13
						23.38	680.20	12/18/13
						20.38	683.20	06/23/14
22.51	681.07	09/29/15						

Table 1
 Static Groundwater Level Data
 Village of Whitefish Bay - Former Good Hope Road Landfill Site
 Sigma Project No. 3125

Well ID	DNR Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date
MPS: MW-3	VN642	696.41	11.0	6.0	691.41	10.73	685.68	08/18/98
						10.82	685.59	08/19/98
						DRY	DRY	08/26/98
						DRY	DRY	01/12/01
						DRY	DRY	06/26/02
						DRY	DRY	12/18/13
						3.25	693.16	06/23/14
MPS: P-3	VN648	696.58	31.1	5.0	670.48	12.58	684.00	08/18/98
						12.64	683.94	08/19/98
						12.90	683.68	08/26/98
						15.06	681.52	01/21/99
						14.94	681.64	01/12/01
						13.63	682.95	06/26/02
						16.34	680.24	12/18/13
						13.25	683.33	06/23/14
						15.47	681.11	09/29/15
MPS: P-4	VN649	703.01	32.45	5.0	675.56	19.42	683.59	01/18/99
						21.23	681.78	12/08/00
						21.47	681.54	01/12/01
		703.20	32.3	5.0	675.95	20.12	683.08	06/26/02
						21.75	681.45	07/17/06
						22.79	680.41	12/05/13
						22.86	680.34	12/17/13
						19.85	683.35	06/23/14
						22.03	681.17	09/29/15
MPS: P-5	VN660	703.12	75.7	5.0	632.42	19.55	683.57	01/25/99
						21.04	682.08	12/08/00
						21.43	681.69	01/12/01
		703.30	75.9	5.0	632.40	20.37	682.93	06/26/02
						23.70	679.60	07/17/06
						23.35	679.95	12/05/13
						23.38	679.92	12/17/13
						20.64	682.66	06/23/14
						22.69	680.61	09/29/15
MPS: P-6	VN661	693.22	19.9	5.0	678.32	9.75	683.47	02/13/99
		693.30				11.50	681.80	12/07/00
						11.79	681.51	01/12/01
		693.32	19.9	5.0	678.47	10.44	682.88	06/26/02
						14.00	679.32	10/02/03
						12.07	681.25	07/17/06
						13.15	680.17	12/05/13
						13.20	680.12	12/17/13
						10.11	683.21	06/24/14
				12.56	680.76	09/29/15		
MPS: P-7	VN662	693.04	41.9	5.0	656.14	10.97	682.07	12/07/00
						11.20	681.84	01/12/01
						10.21	682.83	06/26/02
						15.36	677.68	10/02/03
						14.30	678.74	07/17/06
						13.38	679.66	12/05/13
						13.49	679.55	12/17/13
						10.37	682.67	06/24/14
						12.71	680.33	09/29/15
PZ-8	VN663	696.21	67.4	5.0	633.81	13.88	682.33	12/07/00
						14.06	682.15	01/12/01
						12.41	683.80	06/26/02
						15.55	680.66	07/17/06
						15.40	680.81	12/05/13
						15.36	680.85	12/17/13
						12.05	684.16	06/24/14
14.81	681.40	09/29/15						

Table 1
 Static Groundwater Level Data
 Village of Whitefish Bay - Former Good Hope Road Landfill Site
 Sigma Project No. 3125

Well ID	DNR Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date
MW-8	VN664	696.24	19.9	15.0	691.34	13.86	682.38	12/07/00
						14.16	682.08	01/12/01
						12.54	683.70	06/26/02
						13.90	682.34	07/17/06
						14.95	681.29	12/05/13
						14.98	681.26	12/17/13
						12.56	683.68	06/24/14
						14.59	681.65	09/29/15
PZ-9	VN665	697.68	60.5	5.0	642.18	11.29	686.39	12/07/00
						11.71	685.97	01/12/01
						9.81	687.87	06/26/02
						15.87	681.81	07/17/06
						16.37	681.31	12/05/13
						16.27	681.41	12/17/13
						10.75	686.93	06/24/14
						15.18	682.50	09/29/15
MW-9	VN666	697.70	19.8	15.0	692.90	7.47	690.23	12/07/00
						8.19	689.51	01/12/01
						5.35	692.35	06/26/02
						10.83	686.87	07/17/06
						13.98	683.72	12/05/13
						13.92	683.78	12/17/13
						3.38	694.32	06/24/14
						10.43	687.27	09/29/15
PZ-10	VN667	686.84	42.5	5.0	649.34	13.75	673.09	12/07/00
		686.95	42.5	5.0	649.45	14.05	672.79	01/12/01
						10.21	676.63	06/26/02
						11.87	674.97	07/17/06
						12.18	674.66	12/05/13
						12.25	674.59	12/17/13
						9.33	677.51	06/24/14
						11.14	675.70	09/29/15
MW-10	VN668	687.10	19.5	15.0	682.60	15.53	671.57	12/07/00
		687.21	19.5	15.0	682.71	15.94	671.16	01/12/01
						11.75	675.46	06/26/02
						12.87	674.34	07/17/06
						13.59	673.62	12/05/13
						13.68	673.53	12/17/13
						11.17	676.04	06/24/14
						12.93	674.28	09/29/15
PZ-11	VN669	691.46	48.5	5.0	648.01	8.63	682.83	06/26/02
						12.24	679.22	10/02/03
						10.33	681.13	07/17/06
						11.37	680.09	12/05/13
						11.46	680.00	12/17/13
						8.35	683.11	06/24/14
						10.53	680.93	09/29/15
						MW-11	VN636	691.68
12.46	679.22	10/02/03						
10.53	681.15	07/17/06						
11.58	680.10	12/05/13						
11.64	680.04	12/17/13						
8.55	683.13	06/24/14						
10.78	680.90	09/29/15						

Notes:
 1. Well/piezometers located on the landfill property were surveyed by Sigma.
 2. Top of casing elevations for MPS wells were obtained from NRT report (4/4/99). Top of casing elevations for MPS:P-6 thru MW-11/PZ-11 were surveyed by Northshore Engineering on December 2000.
 3. Depth of well and depth of water level measured from top of casing.
 4. NM - Water level not measured.

Table 2
Groundwater Quality Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
Sigma Project No. 14411

MW-A		Screened Interval: 4 to 14 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	0.45	<0.23	<0.26	<0.28	<0.28	<0.25	<0.23	NA	NA	<0.27	<0.28	<0.27	<0.20	<0.23	
04/21/98	0.44	NR	NR	<0.47	<0.90	NR	NR	NR	NR	<0.41	NR	NR	<0.49	<0.52	
12/18/13	WELL DRY - COULD NOT BE SAMPLED														
06/25/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

PZ-A		Screened Interval: 17 to 20 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	2.1	<0.23	<0.26	<0.28	0.64	<0.25	0.59	NA	NA	1	0.74	<0.27	2	0.79	
04/21/98	<0.44	NR	NR	<0.47	2.7	NR	NR	NR	NR	<0.41	NR	NR	<0.49	<0.52	
12/18/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/25/14	0.44 "J"	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	0.30 "J"	

MW-B		Screened Interval: 4 to 14 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<0.41	<0.23	<0.26	<0.28	0.34	<0.25	<0.23	NA	NA	<0.27	<0.28	<0.27	<0.20	<0.23	
04/21/98	<0.44	NR	NR	<0.47	<0.90	NR	NR	NR	NR	<0.47	NR	NR	<0.49	<0.52	
12/18/13	WELL DAMAGED - COULD NOT BE SAMPLED														

PZ-B		Screened Interval: 18.5 to 23.5 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<0.41	<0.23	<0.26	<0.28	0.48	<0.25	<0.23	NA	NA	<0.27	<0.28	<0.27	<0.20	<0.23	
04/21/98	<0.44	NR	NR	<0.47	<0.90	NR	NR	NR	NR	<0.41	NR	NR	<0.47	<0.52	
12/18/13	WELL DAMAGED - COULD NOT BE SAMPLED														

Table 2
Groundwater Quality Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
Sigma Project No. 14411

MW-C Screened Interval: 5 to 15 feet bgs															
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<2.0	<1.2	<1.3	<1.4	270	3.4	<1.2	NA	NA	73	<1.4	<1.4	540	14	
04/21/98	0.58	NR	NR	<0.47	51	NR	NR	NR	NR	81	NR	NR	13	3.1	
12/18/13	WELL DRY														
06/25/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

PZ-C Screened Interval: 21 to 26 feet bgs															
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<0.41	<0.23	0.89	0.62	110	2.3	<0.23	NA	NA	0.27	<0.28	<0.27	1.5	150	
04/21/98	<0.44	NR	NR	0.8	200	NR	NR	NR	NR	<0.41	NR	NR	16	230	
07/15/98	<0.44	NR	NR	<0.47	82	NR	NR	NR	NR	<0.41	NR	NR	0.89	150	
12/18/13	<0.24	<0.33	<0.3	<0.4	4.5	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	8.8	
06/25/14	<0.24	<0.33	<0.3	<0.4	37	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	34	
09/29/15	<0.44	<0.51	<1.1	<0.65	6	<0.54	<0.71	<1.3	<1.6	<0.49	<0.44	<0.84	<0.47	11.3	

MW-D Screened Interval: 7 to 17 feet bgs															
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<100	<58	120	<70	26,000	62	1,800	NA	NA	4,500	660	400	9,900	520	
06/27/02	<86	<110	<110	<110	21,000	<120	<100	<120	<280	460	<130	<110	1,400	280	
12/18/13	WELL DRY														
06/25/14	<12	<16.5	<15	<20	3,010	52 "J"	<27.5	<25	<85	980	<34.5	40 "J"	1,400	<9	
09/29/15	<22	<25.5	77 J	66 J	158,000	1190	<35.5	<65	<80	920	<22	580	2,550	206	
12/17/15	<440	<530	<1100	<650	28,900	<540	<710	<65	<80	1330 J	<440	<840	1,640	<170	

PZ-D Screened Interval: 24.5 to 29.5 feet bgs															
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<41	<23	81	42	19,000	84	36	NA	NA	51	<28	<27	1,900	4,100	
06/27/02	<86	<110	<110	<110	19,000	<120	<100	<120	<280	<100	<130	<110	5,000	3,500	
12/19/13	<24	<33	<30	<40	3,700	42 J	<55	<50	<170	<33	<69	<33	<33	1,200	
12/19/13 DUP	<12	<16.5	<15	<20	3,400	<17.5	<27.5	<25	<85	<16.5	<34.5	<16.5	<16.5	1,000	
06/25/14	<24	<33	<30	<40	2,840	<35	<55	<50	<170	<33	<69	<33	<16.5	790	
09/29/15	<22	<25.5	<55	<32.5	3,150	<27	<35.5	<65	<80	<24.5	<22	<42	<23.5	1,140	

Table 2
Groundwater Quality Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
Sigma Project No. 14411

MW-E Screened Interval: 7 to 17 feet bgs														
Sampling Date	VOCs													
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
06/19/97	<8.2	<4.6	<5.2	<5.6	390	<5.0	<4.6	NA	NA	510	<5.6	<5.4	2,700	<4.6
06/27/02	<4.3	<5.6	<5.7	<5.7	140	<5.9	<4.9	<6.0	<14	290	<6.3	<5.7	330	<1.2
12/18/13	WELL DRY													
06/23/14	WELL DRY													
09/29/15	WELL DRY													

MW-4 Screened Interval: 14.2 to 19.2 feet bgs														
Sampling Date	VOCs													
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
10/05/88	<1.0	<1.0	3.6	<1.0	NA	<1.0	<1.0	<1.0	NR	400	<1.0	<1.0	425	<1.0
11/10/88	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	NR	223	<1.0	<1.0	341	<1.0
04/19/89	<1.0	<1.0	6	2.3	NA	229	<1.0	<1.0	NR	110	<1.0	<1.0	264	<1.0
11/16/93	<0.2	<0.5	2.3	1.0	212	2.2	<1.0	<2.5	NR	87.1	<1.0	<0.5	104	38.7
06/07/96	NA	NA	ND	NA	190	ND	ND	NA	NR	1,400	ND	ND	1,100	18
06/20/97	<0.82	<0.46	1.6	0.72	150	0.92	<0.46	NA	NA	270	<0.56	<0.54	170	18
06/27/02	<4.3	<5.6	<5.7	<5.7	170	<5.9	<4.9	<6.0	<14	640	<6.3	<5.7	310	7.4
12/18/13	WELL COULD NOT BE LOCATED													
06/25/14	<2.4	<3.3	<3	<4	4.7 "J"	<3.5	<5.5	<5	<17	780	<6.9	<3.3	139	<1.8
09/29/15	<4.4	<5.1	<11	<6.5	61	<5.4	<7.1	<13	<16	89	<4.4	<8.4	54	27.7

MW-6 Screened Interval: 15.3 to 20.3 feet bgs														
Sampling Date	VOCs													
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
11/16/1993	0.3	<0.5	<0.5	<0.4	0.9	<0.5	<1.0	NA	NA	<0.5	<2.0	<0.5	0.7	1.3
6/7/1996	NA	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND
6/20/1997	<0.41	<0.23	<0.26	<0.28	0.45	<0.25	<0.23	NA	NA	<0.27	<0.28	<0.27	<0.20	0.37
04/21/98	<0.44	NR	NR	<0.47	<0.90	NR	NR	NR	NR	<0.41	NR	NR	<0.43	0.99
07/15/98	<0.44	NR	NR	<0.47	<1.1	NR	NR	NR	NR	<0.41	NR	NR	<0.49	1.3
12/18/13	WELL DRY													
06/26/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18

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W-MW-10		Screened Interval: 23.3 to 28.3 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
10/05/88	<1.0	<1.0	23	46	NR	<1.0	<1.0	8.2	NA	138	24	30	2,630	<1.0	
11/10/88	3.9	<1.0	31	54	NR	<1.0	<1.0	<1.0	NA	34	3.4	<1.0	877	<1.0	
04/19/89	<1.0	<1.0	18.8	35.6	NR	10,400	3.5	<1.0	NA	477	11.5	<1.0	3,400	3,400	
11/16/93	0.3	<0.5	2.4	2.3	61.8	20.2	<1.0	<2.5	NA	751	<2.0	<0.5	2,740	303	
06/07/96	NA	NA	ND	NA	740	ND	ND	NA	NA	300	ND	ND	1,700	640	
06/20/97	<8.2	<4.6	<5.2	<5.6	1,400	19	<4.6	NA	NA	460	<5.6	<5.4	2,000	620	
06/27/02	<43	<56	<57	<57	17,000	<59	87 "J"	<60	<140	<49	460	<57	<73	4,600	
12/19/13	<24	<33	<30	<40	820	<35	<55	<50	<170	<33	<69	<33	73 J	500	
06/25/14	<24	<33	<30	<40	600	<35	<55	<50	<170	194	<69	<33	780	202	
09/29/15	<4.4	<5.1	<11	<6.5	520	7 J	<7.1	<13	<16	8.8 J	<4.4	<8.4	220	168	

W-MW-11		Screened Interval: 20.6 to 25.6 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
10/05/88	<1.0	<1.0	19.4	18.7	NA	<1.0	<1.0	<1.0	NA	15.6	3.6	27.9	<1.0	<1.0	
11/10/88	<1.0	<1.0	20.6	20.8	NA	<1.0	<1.0	<1.0	NA	9	<1.0	42.6	11.9	<1.0	
04/19/89	3.6	<1.0	30.2	26	NA	9,130	0.7	<1.0	NA	11.8	2.2	48.4	69	825	
11/16/93	1.1	<0.5	22.9	7	2,660	21.3	39.8	<2.5	NA	<0.5	30.4	21.8	7.2	1,750	
06/07/96	NA	NA	ND	NA	28,000	NA	400	NA	NA	ND	1,000	ND	ND	7,500	
06/20/97	<41	<23	32	<28	9,300	54	45	NA	NA	<27	110	<27	<20	2,100	
06/27/02	<86	<110	<110	<110	1,300	<120	<100	<120	<280	1,300	<130	<110	3,900	400	
12/18/13	<24	<33	<30	<40	4,300	<35	<55	<50	<170	<33	<69	<33	<33	254	
06/25/14	<24	<33	<30	<40	20,300	128	<55	<50	<170	<33	281	39 "J"	<33	1,780	
09/29/15	<88	<102	<220	<130	4,700	<108	<142	<260	<320	<98	<88	<168	<94	304	

MW-18		Screened Interval: 15.7 to 25.7 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
04/19/88	<1.0	<1.0	4.8	0.4	NA	106	<1.0	<1.0	NA	<1.0	<1.0	<1.0	9.4	<1.0	
11/16/93	0.2	<0.5	2.5	<0.4	111	1.8	<1.0	<2.5	NA	<0.5	<2.0	<0.5	3.2	30.5	
06/07/96	NA	NA	ND	NA	15	NA	ND	NA	NA	ND	ND	ND	1.4	2.3	
06/20/97	<0.41	<0.23	0.94	0.33	83	1.4	<0.23	NA	NA	<0.27	<0.28	<0.27	3.2	11	
12/18/13	<0.24	<0.33	<0.3	<0.4	39	0.61 J	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	0.50 J	15.4	
06/26/14	<0.24	<0.33	<0.3	<0.4	2.8	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	0.84	

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MW-22		Screened Interval: 15.9 to 25.9 feet bgs													
		VOCs													
Sampling Date	Units:	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES		5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL		0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
4/19/1989		16.8	ND	165	82.3	NA	22,200	24.7	<1	NA	36.4	25.3	<1	1,180	2,490
11/16/93		13.8	20.1		58.7	1,830	195	3,680	NA	NA	823	2,310	468	1,720	770
06/27/95		<40	NA	<100	<80	17,400	<100	12,600	NA	NA	7,290	1,360	251	13,400	3,460
06/07/96		<600	<1000	<1000	<1000	73,000	<1000	5,100	<1000	<1000	4,100	3,100	1,100	83,000	2,800
12/18/13		WELL DRY													
6/25/2014		<200	<165	<150	<200	19,900	<175	<275	<250	<850	<165	<345	<165	480 "J"	500
9/29/2015		<88	<102	<220	<130	4,200	<108	<142	<260	<320	<98	<88	<168	<94	920

MW-25		Screened Interval: 10 to 20 feet bgs													
		VOCs													
Sampling Date	Units:	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES		5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL		0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
06/27/95		NA	<4.0	<10	<8.0	632	<10	<20	NA	NA	<10	<40	<10	<4.0	59.5
06/07/96		NA	NA	ND	NA	19	ND	ND	NA	NA	ND	NA	ND	ND	1.8
06/20/97		NA	<4.1	<2.6	7.1	1,000	6.6	<2.3	NA	NA	<2.7	<2.8	<2.7	<2.0	250
08/18/98		NA	<0.27	<0.35	0.78	85	<0.79	<0.32	<0.36	NA	<0.43	<0.27	<0.30	<0.37	16
07/20/06		70	0.2 "J"	0.57 "J"	6.0	780	11	<0.5	<0.1	<0.25	<0.5	<0.5	<0.5	<0.2	300
05/21/08		9.8	<3.2	<8.0	<8.0	<8.0	<8.0	<8.0	<16	<4.0	<3.2	<3.2	<8.0	<8.0	<3.2
03/04/09		NA	<2	<5	<5	720	52	<5	<16	<4.0	<5	<5	<8.0	<2	440
10/11/12		NA	<5	<5	<5	750	30.1	<5	<16	<4.0	<4.4	<5.3	<8.0	<2	286
06/25/13		NA	<0.24	<0.3	<0.4	3.5	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	0.56 "J"
12/17/13		NA	<2.4	<3.3	<3	610	4.9 J	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	300
06/24/14		8.68	<0.24	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18
12/11/14		<0.24	0.25 J	<0.3	<0.4	650	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	259
07/21/15		<4.4	<0.24	<0.3	<0.4	720	<0.35	<0.55	<0.5	<1.7	<0.49	<0.69	<0.33	<4.7	221
09/29/15		<22	<25.5	<55	<32.5	600	<27	<35.5	<65	<80	<24.5	<22	<42	<23.5	213

MW-26		Screened Interval: 12 to 22 feet bgs													
		VOCs													
Sampling Date	Units:	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES		5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL		0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
06/27/95		<20	<50	<50	<40	3,070	<50	<100	NA	NA	<50	<200	<50	<20	712
06/07/96		NA	NA	ND	NA	1,100	ND	ND	NA	NA	NA	NA	ND	ND	690
06/20/97		<4.1	<2.3	<2.6	<2.8	1,000	9	<2.3	NA	NA	<2.7	<2.8	<2.7	<2.0	350
06/27/02		<2.2	<2.8	<2.9	<2.9	220	<3.0	<2.5	<3.0	<7.0	<2.5	<3.2	<2.9	<3.7	160
12/18/13		<12	<16.5	<15	<20	1,280	<17.5	<27.5	<25	<85	<16.5	<34.5	<16.5	<16.5	560
12/18/13 DUP		<2.4	<3.3	<3	<4	1,270	5.1 J	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	560
06/25/14		<0.24	<0.33	<0.3	<0.4	0.76 "J"	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18
09/29/15		0.44 J	<0.51	2.54 J	1.63 J	2,040	35	<0.71	<1.3	<1.6	1.01 J	<0.44	<0.874	10.4	440

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W-MW-1S		Screened Interval: 5 to 15 feet bgs													
		VOCs													
Sampling Date	Units:	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES		5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL		0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
04/21/98		<0.44	NA	NA	<0.47	NA	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52
07/15/98		<0.44	NA	NA	<0.47	<0.9	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52
WELL REMOVED IN EARLY 2000															

W-MW-2S		Screened Interval: 5 to 15 feet bgs													
		VOCs													
Sampling Date	Units:	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES		5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL		0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
04/21/98		<0.44	NA	NA	<0.47	<0.9	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52
07/15/98		<0.44	NA	NA	<0.47	<0.9	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52
WELL REMOVED IN EARLY 2000															

W-MW-3S		Screened Interval: 3 to 13 feet bgs													
		VOCs													
Sampling Date	Units:	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES		5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL		0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
04/21/98		<0.44	NA	NA	<0.47	NA	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52
07/15/98		<0.44	NA	NA	<0.47	<0.9	NA	NA	NA	NA	<0.41	NA	NA	<0.63	<0.52
WELL REMOVED IN EARLY 2000															

W-MW-4S		Screened Interval: 5 to 15 feet bgs													
		VOCs													
Sampling Date	Units:	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES		5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL		0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
04/21/98		<0.44	NA	NA	<0.47	NA	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52
07/15/98		<0.44	NA	NA	<0.47	<0.9	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52
12/18/2013		<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18
6/26/2014		<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18

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W-MW-4D		Screened Interval: 15 to 20 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
04/21/98	<0.44	NA	NA	<0.47	<0.90	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52	
07/15/98	<0.44	NA	NA	<0.47	1.3	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52	
12/18/13	<0.24	<0.33	<0.3	<0.4	0.43 J	0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/26/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

W-MW-5S		Screened Interval: 5 to 15 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
04/21/98	<0.44	NA	NA	<0.47	NA	NA	NA	NA	NA	<0.41	NA	NA	<0.49	22	
07/15/98	<0.44	NA	NA	<0.47	12	NA	NA	NA	NA	<0.41	NA	NA	1.2	43	
12/18/2013 **	<0.24	<0.33	<0.3	<0.4	19	0.45 J	<0.55	<0.5	<1.7	1.67	<0.69	<0.33	14	8.6	
06/26/14	<0.24	<0.33	<0.3	<0.4	5.7	<0.35	<0.55	<0.5	<1.7	1.87	<0.69	<0.33	15	1.3	
09/29/15	<0.44	<0.51	<1.1	<0.65	25.2	<0.54	<0.71	<1.3	<1.6	0.69 J	<0.44	<0.33	8.4	52	

MPS MW-1		Screened Interval: 6 to 16 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
08/19/98	<0.27	NA	<0.35	<0.43	<0.28	<0.79	<0.32	<0.36	<0.35	<0.43	<0.27	<0.30	<0.37	<0.20	
12/08/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	
12/18/13	WELL NO LONGER EXISTS														

MPS P-1/P-1R		Screened Interval: 25 to 30 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
08/19/98	<5.4	NA	8.4	<8.6	2,600	<16	<6.4	<7.2	<7.0	<8.6	<5.4	<6.0	<7.4	820	
01/21/99	<6.8	NA	11	<11	3,200	<20	<8.0	<9.0	<8.8	<11	<6.8	<7.5	<9.2	1,100	
12/08/00	<10	NA	<25	<25	3,200	<25	<25	<25	<25	<25	<10	<25	<25	1,600	
12/00 Dup.	<10	NA	<25	<25	3,100	<25	<25	<25	<25	<25	<10	<25	<25	1,400	
12/18/13	WELL NO LONGER EXISTS														
09/29/15	<22	<25.5	<55	<32.5	1,600	<27	<35.5	<65	<80	<24.5	<22	<42	<23.5	780	

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MPS MW-2 Screened Interval: 8 to 18 feet bgs														
Sampling Date	VOCs													
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
12/18/13	WELL DRY													
06/23/14	WELL DRY													

MPS P-2 Screened Interval: 25.6 to 30.6 feet bgs														
Sampling Date	VOCs													
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
08/19/98	<2.7	NA	5.2	<4.3	1,000	8.9	<3.2	3.7	<3.5	<4.3	<2.7	<3.0	<3.7	810
01/21/99	<5.4	NA	8.2	<8.6	1,900	<16	<6.4	<7.2	<7.0	<8.6	<5.4	<6.0	<7.4	1,600
06/27/02	<22	<28	<29	<29	1,400	<30	<25	<30	<70	<25	<32	<29	<37	2,100
06/25/13	<4.8	<6.6	<6	<8	740	<7	<11	<10	<34	<6.6	<13.8	<6.6	<6.6	600
12/18/13	<4.8	<6.6	<6	<8	1,080	<7	<11	<10	<34	<6.6	<13.8	<6.6	<6.6	940
06/25/14	<4.8	<6.6	<6	<8	1,530	<7	<11	<10	<34	<6.6	<13.8	<6.6	<6.6	670
09/29/15	<4.4	<5.1	<11	<6.5	1,290	6.6 J	<7.1	<13	<16	<4.9	<4.4	<8.4	<4.7	800

MPS MW-3 Screened Interval: 5 to 11 feet bgs														
Sampling Date	VOCs													
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
12/18/13	WELL DRY													
06/25/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18

MPS P-3 Screened Interval: 25 to 30 feet bgs														
Sampling Date	VOCs													
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
08/19/98	<0.54	NA	<0.70	<0.86	320	1.7	<0.64	1.0	<0.70	<0.86	<0.54	<0.60	<0.74	150
01/21/99	<0.54	NA	0.78	<0.86	340	3.7	<0.64	<0.72	<0.70	<0.86	<0.54	<0.60	<0.74	240
06/27/02	<22	<28	<29	<29	2,200	<30	<25	<30	<70	<25	<32	<29	<37	1,500
12/18/13	<0.24	<0.33	<0.3	<0.4	91	0.43 J	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	144
06/25/14	<0.24	<0.33	<0.3	<0.4	33	0.37 "J"	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	0.59
09/29/15	<0.44	<0.51	<1.1	<0.65	89	<0.54	<0.71	<1.3	<1.6	<0.49	<0.44	<0.84	<0.47	83

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MPS P-4		Screened Interval: 28 to 33 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
01/18/99	<2.7	NA	7.9	<4.3	1,500	11	<3.2	7.2	<3.5	<4.3	<2.7	<3.0	<3.7	1,000	
12/08/00	<4.0	NA	<10	<10	880	<10	<10	<10	<10	<10	<4.0	<10	<10	760	
06/27/02	<22	<28	<29	<29	2,200	<30	<25	<30	<70	<25	<32	<29	<37	1,500	
06/25/13	<4.8	<6.6	<6	<8	910	<7	<11	<10	<34	<6.6	<13.8	<6.6	<6.6	510	
12/17/13	<12	<16.5	<15	<20	1,880	<17.5	<27.5	<25	<85	<16.5	<34.5	<16.5	<16.5	790	
12/17/13 DUP	<2.4	<3.3	<3	<4	1,940	15.7	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	700	
06/26/14	<4.8	<6.6	<6	<8	1,350	10.2 "J"	<11	<10	<34	<6.6	<13.8	<6.6	<6.6	500	
09/29/15	<8.8	<10.2	<22	<13	1,500	<10.8	<14.2	<26	<32	<9.8	<8.8	<16.8	<9.4	460	

MPS P-5		Screened Interval: 71.5 to 76.5 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
01/25/99	<0.27	NA	<0.35	<0.43	18	<0.79	<0.32	<0.36	0.38	<0.43	0.98	<0.30	<0.37	110	
12/08/00	<0.20	NA	<0.50	<0.50	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	91	
06/27/02	<0.43	<0.56	<0.57	<0.57	25	<0.59	<0.49	<0.6	<1.4	<0.49	<0.63	<0.57	<0.73	53	
06/25/13	<4.8	<6.6	<6	<8	259	<7	<11	<10	<34	<6.6	<13.8	<6.6	<6.6	840	
12/17/13	<2.4	<3.3	<3	<4	158	<3.5	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	470	
06/26/14	<2.4	<3.3	<3	<4	247	<3.5	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	540	
09/29/15	<4.4	<5.1	<11	<6.5	82	<5.4	<7.1	<13	<16	<4.9	<4.4	<8.4	<4.7	88	

MPS P-6		Screened Interval: 15.5 to 20.5 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
02/13/99	<2.7	NA	4.7	<4.3	850	<7.9	<3.2	<3.6	<3.5	<4.3	<2.7	<3.0	<3.7	810	
12/07/00	<0.10	NA	3.2	<0.25	670	3.6	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	530	
06/27/02	<2.2	<2.8	<2.9	<2.9	290	<3.0	<2.5	<3.0	<7.0	<2.5	<3.2	<2.9	<3.7	290	
10/02/03	<4.1	<4.9	<7.5	<5.7	1000	<8.9	<5.4	<4.3	<7.4	<4.5	<6.7	<9.0	<4.5	880	
12/17/13	<2.4	<3.3	<3	<4	580	5.4 J	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	490	
06/26/14	<2.4	<3.3	<3	<4	590	3.7 "J"	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	460	
09/29/15	<4.4	<5.1	<11	<6.5	640	<5.4	<7.1	<13	<16	<4.9	<4.4	<8.4	<4.7	410	

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MPS P-7		Screened Interval: 45 to 50 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	33	<0.25	<0.25	<0.25	0.36	<0.25	0.63	<0.25	<0.25	1,400	
06/27/02	<2.2	<2.8	<2.9	<2.9	15	<3.0	<2.5	<3.0	<7.0	<2.5	<3.2	<2.9	<3.7	360	
10/02/03	<0.41	<0.49	<0.75	<0.57	1.2 / 1.2 *	<0.89	<0.54	<0.43	<0.74	<0.45	<0.67	<0.90	<0.48	64 / 73 *	
12/17/13	<0.24	<0.33	<0.3	<0.4	1.28	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	26.2	
06/26/14	<2.4	<3.3	<3	<4	24.4	<3.5	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	490	
09/29/15	<4.4	<5.1	<11	<6.5	24.8	<5.4	<7.1	<13	<16	<4.9	<4.4	<8.4	<4.7	380	

PZ-8		Screened Interval: 63 to 68 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

MW-8		Screened Interval: 5.5 to 20.5 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

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PZ-9		Screened Interval: 56 to 61 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	3.2	<0.25	2.2	<0.25	<0.25	<0.25	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

MW-9		Screened Interval: 5 to 20 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

PZ-10		Screened Interval: 38 to 43 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	2.8	<0.25	0.79	<0.25	<0.25	<0.25	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

Table 2
Groundwater Quality Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
Sigma Project No. 14411

MW-10		Screened Interval: 5 to 20 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

PZ-11		Screened Interval: 44 to 49 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/27/02	<0.43	<0.56	<0.57	<0.57	<0.53	<0.59	<0.49	<0.6	<1.4	<0.49	<0.63	<0.57	<0.73	<0.12	
10/02/03	8.9	<0.49	<0.75	<0.57	<0.83	<0.89	<0.54	<0.43	<0.74	<0.45	<0.67	<0.90	<0.48	<0.18	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	0.31 J	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
09/29/15	<0.44	<0.51	<1.1	<0.65	<0.45	<0.54	<0.71	<1.3	<1.6	<0.49	<0.44	<0.84	<0.47	<0.17	

MW-11		Screened Interval: 5 to 20 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/27/02	<0.43	<0.56	<0.57	<0.57	<0.53	<0.59	<0.49	<0.6	<1.4	<0.49	<0.63	<0.57	<0.73	<0.12	
10/02/03	<0.41	<0.49	<0.75	<0.57	<0.83	<0.89	<0.54	<0.43	<0.74	<0.45	<0.67	<0.90	<0.48	<0.18	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	0.73	
09/29/15	<0.4	<0.51	<1.1	<0.65	<0.45	<0.54	<0.71	<1.3	<1.6	<0.49	<0.44	<0.84	<0.47	<0.17	

Notes:

- NR 140 ES = Wis. Adm. Code Chapter NR 140 Enforcement Standard
- NR 140 PAL = Wis. Adm. Code Chapter NR 140 Preventive Action Limit
- ES Exceedances: **BOLD**
PAL Exceedances: **BOLD**
- NS = no standard
- ** W-MW-5S was mislabeled as MW-4 during Dec 2013 sampling event.
- * Second value represents duplicate sample result.

5. Abbreviations:

- | | |
|--------------------------------------|--|
| ND = Not Detected | NS = Not Sampled |
| 1,1-DCA = 1,1-Dichloroethane | 1,1-DCE = 1,1-Dichloroethene |
| cis-1,2-DCE = cis-1,2-Dichloroethene | trans-1,2-DCE = trans-1,2-Dichloroethene |
| TCE = Trichloroethene | PCE = Tetrachloroethene |
| 1,1,1-TCA = 1,1,1-Trichloroethane | |

Table 3
Groundwater Inorganic Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
Sigma Project No. 14411

MW-A Screened Interval: 4 to 14 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY						
6/25/2014	308	<0.5	<0.7	<1			

PZ-A Screened Interval: 17 to 20 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	158	<0.5	<0.7	<1	115	481	349
06/25/14	164 "J"	<0.5	<0.7	<1			

MW-B Screened Interval: 4 to 14 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DAMAGED - COULD NOT BE SAMPLED						

PZ-B Screened Interval: 18.5 to 23.5 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DAMAGED - COULD NOT BE SAMPLED						

Table 3
Groundwater Inorganic Data
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MW-C Screened Interval: 5 to 15 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY				WELL DRY		
06/25/14	116 "J"	<0.5	<0.7	<1			

PZ-C Screened Interval: 21 to 26 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	<60.1	<0.5	<0.7	<1	127	324	140
06/25/14	85.6 "J"	<0.5	<0.7	<1			

MW-D Screened Interval: 7 to 17 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY				WELL DRY		
06/25/14	119 "J"	<0.5	<0.7	<1			

PZ-D Screened Interval: 24.5 to 29.5 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/19/13	69	<0.5	<0.7	<1	577	1028	330.00
6/25/2014	87.3 "J"	<0.5	<0.7	<1			

Table 3
Groundwater Inorganic Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
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MW-E Screened Interval: 7 to 17 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY				WELL DRY		

MW-4 Screened Interval: 14.2 to 19.2 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL COULD NOT BE LOCATED						
6/25/2014	73.4 "J"	<0.5	<0.7	<1			

MW-6 Screened Interval: 15.3 to 20.3 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY				WELL DRY		
06/25/14	1,250	<0.5	<0.5	<1			

W-MW-10 Screened Interval: 23.3 to 28.3 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/19/13	93	<0.5	<0.7	<1	541	965	345
06/25/14	83.5 "J"	<0.5	<0.7	1.6 "J"			

Table 3
Groundwater Inorganic Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
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W-MW-11		Screened Interval: 20.6 to 25.6 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	84	<0.5	<0.7	<1	289	834	375
06/25/14	242	<0.5	<0.7	1.4 "J"			

MW-18		Screened Interval: 15.7 to 25.7 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	92	<0.5	<0.7	<1	755	429	309
6/26/2014	761	<0.5	<0.7	<1			

MW-22		Screened Interval: 21.8 to 31.8 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY				WELL DRY		
6/25/2014	94	<0.5	<0.7	<1			

Table 3
Groundwater Inorganic Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
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MW-25		Screened Interval: 10 to 20 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	157	763	305

MW-26		Screened Interval: 12 to 22 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	87	<0.5	<0.7	<1	250	808	351
06/25/14	<60.1	<0.5	<0.7	<1			

W-MW-1S		Screened Interval: 5 to 15 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
WELL NO LONGER EXISTS							

Table 3
Groundwater Inorganic Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
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W-MW-2S Screened Interval: 5 to 15 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
WELL NO LONGER EXISTS							

W-MW-3S Screened Interval: 3 to 13 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
WELL NO LONGER EXISTS							

W-MW-4S Screened Interval: 5 to 15 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/2013	<60.1	<0.5	<0.7	<1	390	1830	609
6/26/2014	<60.1	<0.5	<0.7	8.8			

Table 3
Groundwater Inorganic Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
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W-MW-4D Screened Interval: 15 to 20 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/2013	<60.1	<0.5	<0.7	<1	150	409	154
6/26/2014	<60.1	<0.5	<0.7	<1			

W-MW-5S Screened Interval: 5 to 15 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/2013 **	<60.1	<0.5	<0.7	<1	252	778	337
06/26/14	<60.1	<0.5	<0.7	<1			

MPS MW-1 Screened Interval: 6 to 16 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL NO LONGER EXISTS						

MPS P-1 Screened Interval: 25 to 30 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL NO LONGER EXISTS						

Table 3
Groundwater Inorganic Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
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MPS MW-2		Screened Interval: 8 to 18 feet bgs							
		Inorganic Metals				General Wet Chemistry			
Sampling Date		Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)	
Units:		ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l	
NR 140 ES		1,000	5	15	50	NS	NS	NS	
NR 140 PAL		200	0.5	1.5	10	NS	NS	NS	
12/18/13		WELL DRY				WELL DRY			

MPS P-2		Screened Interval: 25.6 to 30.6 feet bgs							
		Inorganic Metals				General Wet Chemistry			
Sampling Date		Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)	
Units:		ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l	
NR 140 ES		1,000	5	15	50	NS	NS	NS	
NR 140 PAL		200	0.5	1.5	10	NS	NS	NS	
12/18/13		69	<0.5	<0.7	<1	289	815	334	
06/25/14	93.5 "J"	<0.5	<0.5	<0.7	<1				

MPS MW-3		Screened Interval: 5 to 11 feet bgs							
		Inorganic Metals				General Wet Chemistry			
Sampling Date		Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)	
Units:		ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l	
NR 140 ES		1,000	5	15	50	NS	NS	NS	
NR 140 PAL		200	0.5	1.5	10	NS	NS	NS	
12/18/13		WELL DRY				WELL DRY			
06/25/14		<60.1	<0.5	<0.7	<1				

Table 3
Groundwater Inorganic Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
Sigma Project No. 14411

MPS P-3 Screened Interval: 25 to 30 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	88	<0.5	<0.7	<1	249	642	322
06/25/14	107 "J"	<0.5	<0.7	<1			

MPS P-4 Screened Interval: 28 to 33 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	79	<0.5	<0.7	<1	297	765	342
06/26/14	98.1	<0.5	<0.7	<1			

MPS P-5 Screened Interval: 71.5 to 76.5 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	96	<0.5	<0.7	<1	239	745	296
06/26/14	137 "J"	<0.5	<0.7	<1			

MPS P-6 Screened Interval: 15.5 to 20.5 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	71	<0.5	<0.7	<1	336	771	319
06/26/14	201	<0.5	<0.7	<1			

Table 3
Groundwater Inorganic Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
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MPS P-7		Screened Interval: 45 to 50 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	205	355	41
06/26/14	<60.1	<0.5	<0.7	<1			

PZ-8		Screened Interval: 63 to 68 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	116	<0.5	<0.7	<1	32.5	391	176
06/27/14	69.1 "J"	<0.5	<0.7	<1			

MW-8		Screened Interval: 5.5 to 20.5 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	120	<0.5	<0.7	<1	83.4	591	284
06/27/14	<60.1	<0.5	<0.7	<1			

Table 3
Groundwater Inorganic Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
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PZ-9		Screened Interval: 56 to 61 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	8.53	635	295
06/27/14	<60.1	<0.5	<0.7	<1			

MW-9		Screened Interval: 5 to 20 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	5.29	669	351
06/27/14	84.9 "J"	<0.5	<0.7	<1			

PZ-10		Screened Interval: 38 to 43 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	262	276	46.7
06/27/14	93.5 "J"	<0.5	<0.7	<1			

Table 3
Groundwater Inorganic Data
Village of Whitefish Bay - Former Good Hope Road Landfill Site
Sigma Project No. 14411

MW-10 Screened Interval: 5 to 20 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	72	<0.5	<0.7	<1	259	973	301
06/27/14	72.4 "J"	<0.5	<0.7	<1			

PZ-11 Screened Interval: 44 to 49 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	380	1190	304
06/27/14	67.1 "J"	<0.5	<0.7	<1			

MW-11 Screened Interval: 5 to 20 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	171	819	312
06/27/14	119 "J"	<0.5	<0.7	1.6 "J"			

Notes:

1. NR 140 ES = Wis. Adm. Code Chapter NR 140 Enforcement Standard
2. NR 140 PAL = Wis. Adm. Code Chapter NR 140 Preventive Action Limit
3. ES Exceedances: **BOLD**
- PAL Exceedances: **BOLD**
4. NS = no standard

** W-MW-5S was mislabeled as MW-4 during Dec 2013 sampling event.

Table 4
Groundwater Biodegradation Parameters
Former Good Hope Road Landfill Site and Vicinity
Sigma Project No. 3125

MW-A									
Biodegradation Parameters									
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)	
06/19/97	168	356	341663						
09/29/15				WATER LEVEL					

PZ-A									
Biodegradation Parameters									
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)	
12/18/13				1.28	95.5	7.93	1.8	11.2	
09/29/15				WATER LEVEL					

MW-B								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/19/97	64	107	170461					

PZ-B								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)

MW-C								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
09/29/15				--	--	--	--	--

PZ-C								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/18/13				72.7	1.22	8.08	2	10.7
09/29/15				2.5	-68	8	4	8.4

MW-D								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/19/97	38009	22792	407794					
06/27/02	3300	8000	31000	0.2	-102.7	7	0	15.3
09/29/15				1	-25	7.5	--	9.8

MW-22								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
09/29/15				3	-51	7.8	2.6	9.6

Table 4
Groundwater Biodegradation Parameters
Former Good Hope Road Landfill Site and Vicinity
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PZ-D Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02	2500	870000	1500000	0.2	-142.9	7	0	14.8
12/19/13				3.74	175	7.6	5.2	8.5
09/29/15				2.4	45	7.6	4.2	9.2

MW-E Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02	16	25	680	0.27	-59.4	7	0	15.4
09/29/15				--	--	--	--	--

MW-4 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02				0.22	-77.9	7	0	15.1
12/18/13				WELL COULD NOT BE LOCATED				
09/29/15				2.2	39	8	0	9.7

W-MW-4S Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/18/13				0.67	82.1	7.35	3.8	10.9
09/29/15				WATER LEVEL				

W-MW-4D Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/18/13				1.48	86.3	7.81	2.2	11.4
09/29/15				WATER LEVEL				

W-MW-5S Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/18/13				1.44	67.1	7.72	0	10
09/29/15				2.4	33	8.1	0	10.9

MW-6 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
09/29/15								
				WATER LEVEL				

W-MW-10 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02	130	53000	38000	0.29	-31.8	7	0	14.9
12/19/13				2.15	139.9	7.56	3.2	8.2
09/29/15				2.3	12	7.9	1	9.1

Table 4
Groundwater Biodegradation Parameters
Former Good Hope Road Landfill Site and Vicinity
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W-MW-11 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02				0.23	-131.1	7	0	14.9
12/18/13				1.51	106.5	7.37	1.8	9.3
09/29/15				3	42	7.8	0	8.7

MW-18 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
09/29/15	WATER LEVEL							

MW-25 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/17/13				1.52	74.2	7.82	0	10.8
09/29/15				4.4	-12	7.8	2	9.3

MW-26 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02				0.19	-146.9	7	0	15.1
12/18/13				1.39	88	7.65	4.2	10.1
09/29/15				3	-10	7.9	0	9.6

MPS MW-1 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.61	109.6	7	0	12.0

MPS P-1 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.31	47.2	7	0	13.1
09/29/15				4	-32	7.4	4	8.7

Table 4
Groundwater Biodegradation Parameters
Former Good Hope Road Landfill Site and Vicinity
Sigma Project No. 3125

MPS MW-2								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.61	109.6	7	0	12.0

MPS P-2								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.61	109.6	7	0	12.0
06/27/02				0.28	-169.6	7	0	14.5
12/18/13				2.23	161.5	7.72	2	11.1
09/29/15				3.4	-78	7.9	4	9.4

MPS MW-3								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.61	109.6	7	0	12.0

MPS P-3								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02				0.24	-178.4	7	0	14.7
12/18/13				2.25	94.1	7.76	3	10.8
09/29/15				4.6	85	7.1	0	9.6

MPS P-4								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.42	22.3	7	0	13.7
12/17/13				1.26	117.3	7.53	2.4	10.9
09/29/15				5.2	162	7.1	3.6	8.8

MPS P-5								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.61	19.7	7	0	13.4
06/27/02	<5.0	64	520	0.22	-106.7	7	0	13.7
12/17/13				1.13	120.2	7.86	0	10.7
09/29/15				2.8	192	7.3	3	9

Table 4
Groundwater Biodegradation Parameters
Former Good Hope Road Landfill Site and Vicinity
Sigma Project No. 3125

MPS P-6								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.43	38.9	7	0	14.2
06/27/02	520	4400	4400	0.47	110.6	7	0	15.2
10/02/03	8300	1000	38000	0.28	67.6	7	0	15
12/17/13				1.37	89.2	7.97	1.8	13.3
09/29/15				2	261	7.4	3	9.3

MPS P-7								
Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.32	-43.7	7	0	13.5
06/27/02	6600	260000	550000	0.44	96.7	11	0	13.9
10/02/03	7200	490	10000	0.27	55.3	7	0	14.4
12/17/13				1.29	56.1	8.37	0	12.7
09/29/15				2	110	7.4	0	9.1

PZ-8									
Biodegradation Parameters									
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)	
12/07/00				0.61	136.1	7	0.8	13.7	
12/17/13				1.7	107.9	7.91	0	12.6	
09/29/15				WATER LEVEL					

MW-8									
Biodegradation Parameters									
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)	
12/07/00				1.09	212.2	7	0.2	13.9	
12/17/13				1.15	148	8.07	1.2	13.7	
09/29/15				WATER LEVEL					

PZ-9									
Biodegradation Parameters									
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)	
12/07/00				0.79	157.7	7	0	13.5	
12/17/13				1.27	139.9	8.62	3.6	11.4	
09/29/15				WATER LEVEL					

MW-9									
Biodegradation Parameters									
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)	
12/07/00				0.62	133.4	7	0	12.2	
12/17/13				1.11	164.2	7.84	0	12.1	
09/29/15				WATER LEVEL					

Table 4
Groundwater Biodegradation Parameters
Former Good Hope Road Landfill Site and Vicinity
Sigma Project No. 3125

PZ-10 Biodegradation Parameters									
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)	
12/07/00				0.39	18.9	11	0	13.2	
12/17/13				1.4	189.1	8.49	0	13.1	
09/29/15				WATER LEVEL;					

MW-10 Biodegradation Parameters									
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)	
12/07/00				0.56	79.4	7	0	15.4	
12/17/13				1.17	219.3	7.69	0	14.0	
09/29/15				WATER LEVEL					

PZ-11 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02	510	900	6800	0.37	192.7	7	0	13.8
12/17/13				1.84	172.2	7.76	4	12.7
09/29/15				5.7	276	7	6.2	9.1

MW-11 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02	560	110	16000	0.45	160.5	7	0	15.2
10/02/03	19	360	1300	0.24	-32.6	7	0.8	14.5
12/17/13				1.06	165.4	7.77	0	13.8
09/29/15				3.6	280	7.3	0	9.6

Notes:

- Abbreviations:
 - mg/l = milligrams per liter (equivalent to parts per million, ppm)
 - µg/l = micrograms per liter (equivalent to parts per billion, ppb)
 - NA = Not Analyzed
 - DO = Dissolved Oxygen
 - REDOX = Reduction-oxidation potential
 - mV = millivolts
 - °C = Degrees Celcius

APPENDIX A
GROUNDWATER SAMPLING FIELD LOGS



SIGMA ENVIRONMENTAL SERVICES, INC.
REQUEST FOR GROUNDWATER SERVICES

Project # 14411 Phase 001 Task FLD Budget 2-3 days
 Project Manager Signature Mafizul Islam
 Field Crew Signature _____
 Company Good Hope Road Landfill Site Date Issued 6/12/2014 By Daniel Schwartz
 Address 5201 W. Good Hope Road Route Notes To Mafizul Islam
 City, State Milwaukee Phone _____
 Contact _____ By DD/MM Date 9-24-15 / 9-30-15
 Date of Service June 2014 Log # 509
 Confirmed by: (date) _____

Services Requested:

<input checked="" type="checkbox"/> Water Levels (all wells unless noted otherwise)	<input checked="" type="checkbox"/> Dissolved Oxygen (see list)
<input type="checkbox"/> Product Levels (as indicated)	<input checked="" type="checkbox"/> Redox (see list)
<input type="checkbox"/> Well Abandonment (see list)	<input checked="" type="checkbox"/> pH
<input type="checkbox"/> Well Development	<input checked="" type="checkbox"/> Ferrous Iron (see list)
<input checked="" type="checkbox"/> Well Sampling (see list)	<input checked="" type="checkbox"/> Temperature
<input type="checkbox"/> Surveying (see list)	<input checked="" type="checkbox"/> Conductivity

Laboratory Information

Sample Destination / Lab Bid# Synergy Lab Name of Laboratory _____
 Sample Supplies Order/By/Date MI Date / Name _____
 Route Results To: Mafizul Islam

Analytes	Landfill Monitoring Wells		Off-site Monitoring Wells		
	MW-C, PZ-C, MW-D, PZ-D, MW-22, MW-E, W-MW-10, W-MW-11, MW-4 & W-MW-5S	MW-A, PZ-A, W-MW-4S, W-MW-4D, MW-6 & MW-18	MW-25, MW-26	MPS: P-1R, MPS:P-2, MPS:P-3, MPS:P-4, MPS:P-5, MPS:P-6, MPS:P-7, MW-11 & P-11	MW-8, PZ-8, MW-9, PZ-9, MW-10 & PZ-10
VOC	X		X	X	
WATER LEVEL	X	X	X	X	X
DO, REDOX, pH, Temp & Cond.	X		X	X	
Fe+ Iron	X		X	X	

Development / Purge Water

Transport to Port Washington
 Leave on site
 Sample Water

Invoicing / Purge Water

 Sigma

 Other

Notes:

1. Develop replacement well MPS:P-1R
2. Bring 4x4 truck to move within the landfill site.
3. Mix purge water with potassium permanganate (1 cup per drum of purge water) and take to the Port Wash. Treatment Plant.
4. Attach WDNR well ID stickers to pvc well casings (see attached sheet)

9-29-15 Goodhope Landfill Site # 14411 001

55th & Goodhope Rd
Milw. WI

- Purged and sampled W-mw-55, mw 4,
W-mw-10, PZ-C, W-mw-11, mw-25 and mw-26 for VOC's.
- mw-C and mw-E and mw-A are Dry
- mps-mw-2, mps-mw-3 are also dry.
- Took water Levels at all wells on site, see
ground water sampling sheet for all Levels.
- Job took longer trying to find these wells that
are in thick wooded cover.
- 9-30-15 → Developed MPS-P-1R
- Purged and Sampled mw-D, PZ-D,
mw-22, mps-P-1R, mps-P-2, mps-P-3, mps-P-4, mps-P-5,
mps-P-6, ~~mw-22~~ mps-P-7, mw-11 and PZ-11 for VOC.
- only able to collect 2.40ml. vial at mw-D "goes dry; no recharge.
- Dup. #1 at mps-P-3 / Dup. #2 at mps-P-4
- Used disposable bailers "no Equip. blank"
- Samples to "Synergy Labs" in Appleton, WI
- All purge water drummed and taken to Port Washington
W.W.T.P.

122 gals. ← In on 9-30-15

Continued on Page _____

D Pailey

Signed

9.30.15

Date

Read and Understood By _____

Signed

Date

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

Facility/Project Name <u>Goodhope Rd. Landfill site</u>	County Name <u>Milwaukee</u>	Well Name <u>MPS-P-1R</u>
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well ID Number

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other

3. Time spent developing well 90 min.

4. Depth of well (from top of well casing) 33.15 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing 15.2 gal.

7. Volume of water removed from well 21.0 gal.

8. Volume of water added (if any) None gal.

9. Source of water added None

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

17. Additional comments on development:

purged well dry 3 times
1st = 10.0 gals.
2nd = 7.0 gals.
3rd = 4.0 gals.

11. Depth to Water (from top of well casing)

	Before Development	After Development
a.	<u>25.10</u> ft.	<u>32.60</u> ft.
Date	b. <u>09/29/2015</u> m m d d y y y y	<u>09/29/2015</u> m m d d y y y y
Time	c. <u>11:30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>1:00</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.

12. Sediment in well bottom 2.0 inches 0.0 inches

13. Water clarity

	Clear <input type="checkbox"/> 1 0	Clear <input checked="" type="checkbox"/> 2 0
(Describe)	Turbid <input checked="" type="checkbox"/> 1 5	Turbid <input type="checkbox"/> 2 5
		<u>slight turbid</u>

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

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: David Last Name: Dailey

Firm: The Sigma Group

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____
Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: David Dailey

Print Name: David Dailey

Firm: The Sigma Group

Project # #14411 Date 9-29-15 | 9-30-15
 Project Name: GOOD HOPE ROAD LANDFILL SITE
 Project Location: 5201 West Good Hope Road Milwaukee, WI
 Weather: rain in the AM Field Service Personnel: Dave Dailey
 Analytes: VOC Mike Murray

Purging Device / Sampling Device
 Type of Device: Disposable Bailer / Peristaltic Pump ✓
 How was Device Decontaminated: Sigma's Standard Operating Procedures ✓
 How was the Line Decontaminated: New Line / New Tubing ✓

Well Volume	Monitoring Well IDs									
	MW-C	PZ-C	MW-D	PZ-D	MW-22	MW-E	W-MW-10	W-MW-11	MW-4	W-MW-55
Well Diameter	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
Stickup/Flushmount	STICKUP	STICKUP	STICKUP	STICKUP	STICKUP	STICKUP	STICKUP	STICKUP	STICKUP	STICKUP
Depth to Bottom (ft)	16.75'	26.10	19.45'	31.80'	28.40'	19.25'	30.50'	27.85'	20.60'	17.55'
Depth to Water (ft)	DRY	18.71'	18.65'	27.60'	27.88'	DRY	27.06'	23.68'	16.75'	15.28'
Length of Water (ft)	-	7.39	0.80	4.20	0.52	-	3.44	4.17	3.85	2.27
Volume (gal)	-	1.20	0.13	0.68	0.08	-	0.56	0.68	0.63	0.37
x4	-	4.82	0.52	2.74	0.34	-	2.24	2.72	2.51	1.48
Time Purged	-									
Time Sampled	-									

In-Situ Testing	MW-C	PZ-C	MW-D	PZ-D	MW-22	MW-E	W-MW-10	W-MW-11	MW-4	W-MW-55
D.O. (mg/l)	-	2.5	1.0	2.4	3.0	-	2.3	3.0	2.2	2.4
Redox (mV)	-	-68	-25	+45	-51	-	+12	+42	+39	+33
pH (S.U.)	-	8.0	7.5	7.0	7.8	-	7.9	7.8	8.0	8.1
Conductivity (mS/cm)	-	1.81	2.10	2.54	3.28	-	3.21	2.65	2.35	2.29
Ferrous Fe (mg/L)	-	4.0	NO	4.2	2.6	-	1.0	0.0	0.0	0.0
Temperature (°C)	-	8.4°	9.8°	9.2	9.6°	-	9.1°	8.7°	9.7°	10.9°
Turbidity (C/T/O)	-	C	T	C	C	-	C	C	S.T.	C
Odor (Y or N)	-	NO	-	N	NO	-	NO	NO	NO	NO
Volume (Gallons)	-	4.5	1/2 Liter	2.75	NO Purge	-	2.5	2.5	2.5	1.5
Well Recovery	-	good	Dry	good	NO Purge	-	good	good	good	good

Note: Above is for one well volume.
 Well Size: 2 inch x 0.16, 4 inch x 0.65, 6 inch x 1.47
 Gallons/Linear Foot

Notes

Project # 14411 Date 9-29-15 / 9-30-15

Project Name: Goodhope Landfill Site

Project Location: _____

Weather: _____ Field Service Personnel: DD / MM

Analytes: VOC

Purging Device / Sampling Device

Type of Device: Disposable Bailer / Peristaltic Pump

How was Device Decontaminated: Sigma's Standard Operating Procedures

How was the Line Decontaminated: New Line / New Tubing

Well Volume	Monitoring Well IDs									
	MW-25	MW-26	MPS P-1 R	MPS P-2	MPS P-3	MPS P-4	MPS P-5	MPS P-6	MPS P-7	MW-11
Well Diameter	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
Stickup/Flushmount	STICKUP	STICKUP	Flush	STICKUP	STICKUP	FLUSH	FLUSH	FLUSH	FLUSH	FLUSH
Depth to Bottom (ft)	21.80'	24.05'	33.15'	33.10'	31.90'	32.45'	76.00'	19.75'	41.65'	18.00'
Depth to Water (ft)	14.16'	20.92'	25.10'	22.51'	15.47'	22.03'	22.69'	12.56'	12.71'	10.78'
Length of Water (ft)	7.64'	3.13'	8.05'	10.59'	16.43'	10.42'	53.31'	7.19'	28.94'	7.22'
Volume (gal)	1.25	0.51	1.28	1.49	2.62	1.67	8.53	1.17	4.22	1.18
x4	4.98	2.04	5.15	6.77	10.5	6.67	34.12	4.69	18.87	4.71
Time Purged										
Time Sampled										

In-Situ Testing										
D.O. (mg/l)	4.4	3.0	4.0	3.4	4.6	5.2	2.8	2.0	2.0	3.6
Redox (mV)	-12	-10	-32	-78	+85	+162	+192	+261	+110	+280
pH (S.U.)	7.8	7.9	7.4	7.9	7.1	7.1	7.3	7.4	7.4	7.3
Conductivity (mS/cm)	1.79	2.31	2.90	2.52	2.20	2.67	1.86	0.888	2.11	2.33
Ferrous Fe (mg/L)	2.0	0.0	4.0	4.0	0.0	3.6	3.0	0.0	0.0	0.0
Temperature (°C)	9.3°	9.6°	8.7°	9.4	9.6	8.8	9.0	9.3	9.1	9.4
Turbidity (C/T/O)	S.T.	C	C	C	C	C	C	C	C	S.T.
Odor (Y or N)	NO	NO	NO	Decay	NO	NO	NO	NO	NO	NO
Volume (Gallons)	5.0	2.0	5.0	6.5	10.0	6.5	30.0	5.0	5.5	4.5
Well Recovery	good	good	good	good	good	good	good	good	going Dry	good

Note: Above is for one well volume.

Well Size	Gallons/Linear Foot
2 inch	x 0.16
4 inch	x 0.65
6 inch	x 1.47

Notes

- * Dup. # 1 at MPS P-3
- * Dup. # 2 at MPS P-4
- * MPS MW-2 Dry at 17.10
- * MPS MW-3 Dry
- * MPS P-2 and MPS MW-2 both missing steel Lids for stick-ups and missing well caps "plugs" Put plug on P-2.

Project # 14411 Date 9-29-15 / 9-30-15
 Project Name: Goodhope Landfill site
 Project Location: _____
 Weather: _____ Field Service Personnel: _____
 Analytes: _____
 Purging Device / Sampling Device
 Type of Device: _____ Disposable Bailer / Peristaltic Pump _____
 How was Device Decontaminated: _____ Sigma's Standard Operating Procedures _____
 How was the Line Decontaminated: _____ New Line / New Tubing _____

Well Volume	Monitoring Well IDs									
	<u>A211</u>									
Well Diameter	<u>2"</u>									
Stickup/Flushmount	<u>FLUSH</u>									
Depth to Bottom (ft)	<u>48.60</u>									
Depth to Water (ft)	<u>10.53</u>									
Length of Water (ft)	<u>38.07</u>									
Volume (gal)	<u>6.21</u>									
	<u>x4 24.82</u>									
Time Purged										
Time Sampled										

In-Situ Testing										
D.O. (mg/l)	<u>5.7</u>									
Redox (mV)	<u>+276</u>									
pH (S.U.)	<u>7.0</u>									
Conductivity (mS/cm)	<u>2.44</u>									
Ferrous Fe (mg/L)	<u>6.2</u>									
Temperature (°C)	<u>9.1</u>									
Turbidity (C/T/O)	<u>C</u>									
Odor (Y or N)	<u>NO</u>									
Volume (Gallons)	<u>25.0</u>									
Well Recovery	<u>good</u>									

Note: Above is for one well volume.

Well Size		Gallons/Linear Foot
2 inch	x	0.16
4 inch	x	0.65
6 inch	x	1.47

Notes _____

Project # 14411 Date 9-29-15 / 9-30-15
 Project Name: Goodhope Landfill site
 Project Location: _____
 Weather: _____ Field Service Personnel: _____
 Analytes: _____
Purging Device / Sampling Device
 Type of Device: _____ Disposable Bailer / Peristaltic Pump _____
 How was Device Decontaminated: _____ Sigma's Standard Operating Procedures _____
 How was the Line Decontaminated: _____ New Line / New Tubing _____

Well Volume	Monitoring Well IDs									
	MW-A	PZ-A	W-MW-4S	W-MW-4D	MW-6	MW-18	MW-8	PZ-8	MW-9	PZ-9
Well Diameter	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
Stickup/Flushmount	STICKUP	STICKUP	STICKUP	STICKUP	STICKUP	STICKUP	FLUSH	FLUSH	FLUSH	FLUSH
Depth to Bottom (ft)	11.85'	19.95'	17.75'	22.35'	22.25'	27.10'	19.90'	66.70'	19.85'	60.20'
Depth to Water (ft)	DRY	15.42'	14.51'	15.42'	21.24'	21.88'	14.59'	14.81'	10.43'	15.18'
Length of Water (ft)										
Volume (gal)										
	x4									
Time Purged										
Time Sampled										

In-Situ Testing										
D.O. (mg/l)										
Redox (mV)										
pH (S.U.)										
Conductivity (mS/cm)										
Ferrous Fe (mg/L)										
Temperature (°C)										
Turbidity (C/T/O)										
Odor (Y or N)										
Volume (Gallons)										
Well Recovery										

WATER LEVELS

Note: Above is for one well volume.

Well Size		Gallons/Linear Foot
2 inch	x	0.16
4 inch	x	0.65
6 inch	x	1.47

Notes



SIGMA ENVIRONMENTAL SERVICES, INC.

SUMMARY SHEET FOR GROUNDWATER SERVICES

Project # 14411 Date 9-29-15 / 9-30-15
 Project Name: Goodhope Landfill site
 Project Location: _____
 Weather: _____ Field Service Personnel: _____
 Analytes: _____
Purging Device / Sampling Device
 Type of Device: _____ Disposable Bailer / Peristaltic Pump _____
 How was Device Decontaminated: _____ Sigma's Standard Operating Procedures _____
 How was the Line Decontaminated: _____ New Line / New Tubing _____

Well Volume	Monitoring Well IDs							
	MW-10	PZ-10						
Well Diameter	2"	2"						
Stickup/Flushmount	FLUSH	FLUSH						
Depth to Bottom (ft)	19.50'	47.90'						
Depth to Water (ft)	12.93'	11.14'						
Length of Water (ft)								
Volume (gal)								
x4								
Time Purged								
Time Sampled								

In-Situ Testing								
D.O. (mg/l)								
Redox (mV)								
pH (S.U.)								
Conductivity (mS/cm)								
Ferrous Fe (mg/L)								
Temperature (°C)								
Turbidity (C/T/O)								
Odor (Y or N)								
Volume (Gallons)								
Well Recovery								

WATER LEVELS

Note: Above is for one well volume. Well Size Gallons/Linear Foot
 2 inch x 0.16
 4 inch x 0.65
 6 inch x 1.47

Notes

APPENDIX B
LABORATORY ANALYTICAL REPORTS

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

MAFIZUL ISLAM
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE, WI 53233

Report Date 08-Oct-15

Project Name GOODHOPE RD. LANDFILL SITE
Project # 14411

Invoice # E29795

Lab Code 5029795A
Sample ID W-MW-55
Sample Matrix Water
Sample Date 9/29/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B	10/6/2015	10/6/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B	10/6/2015	10/6/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B	10/6/2015	10/6/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B	10/6/2015	10/6/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B	10/6/2015	10/6/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B	10/6/2015	10/6/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B	10/6/2015	10/6/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B	10/6/2015	10/6/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B	10/6/2015	10/6/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B	10/6/2015	10/6/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B	10/6/2015	10/6/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B	10/6/2015	10/6/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B	10/6/2015	10/6/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B	10/6/2015	10/6/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B	10/6/2015	10/6/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B	10/6/2015	10/6/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B	10/6/2015	10/6/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B	10/6/2015	10/6/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B	10/6/2015	10/6/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B	10/6/2015	10/6/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B	10/6/2015	10/6/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B	10/6/2015	10/6/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B	10/6/2015	10/6/2015	CJR	1
cis-1,2-Dichloroethene	25.2	ug/l	0.45	1.4	1	8260B	10/6/2015	10/6/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B	10/6/2015	10/6/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B	10/6/2015	10/6/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B	10/6/2015	10/6/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B	10/6/2015	10/6/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B	10/6/2015	10/6/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B	10/6/2015	10/6/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B	10/6/2015	10/6/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B	10/6/2015	10/6/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B	10/6/2015	10/6/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
Project # 14411

Invoice # E29795

Lab Code 5029795A
Sample ID W-MW-55
Sample Matrix Water
Sample Date 9/29/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		10/6/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		10/6/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		10/6/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		10/6/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		10/6/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		10/6/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/6/2015	CJR	1
Tetrachloroethene	0.69 "J"	ug/l	0.49	1.5	1	8260B		10/6/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		10/6/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		10/6/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		10/6/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		10/6/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		10/6/2015	CJR	1
Trichloroethene (TCE)	8.4	ug/l	0.47	1.5	1	8260B		10/6/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/6/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		10/6/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		10/6/2015	CJR	1
Vinyl Chloride	52	ug/l	0.17	0.54	1	8260B		10/6/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		10/6/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		10/6/2015	CJR	1
SUR - Toluene-d8	107	REC %			1	8260B		10/6/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		10/6/2015	CJR	1
SUR - 4-Bromofluorobenzene	112	REC %			1	8260B		10/6/2015	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		10/6/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795B
 Sample ID MW-4
 Sample Matrix Water
 Sample Date 9/29/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 4.4	ug/l	4.4	14	10	8260B		10/6/2015	CJR	1
Bromobenzene	< 4.8	ug/l	4.8	15	10	8260B		10/6/2015	CJR	1
Bromodichloromethane	< 4.6	ug/l	4.6	15	10	8260B		10/6/2015	CJR	1
Bromoform	< 4.6	ug/l	4.6	15	10	8260B		10/6/2015	CJR	1
tert-Butylbenzene	< 11	ug/l	11	34	10	8260B		10/6/2015	CJR	1
sec-Butylbenzene	< 12	ug/l	12	38	10	8260B		10/6/2015	CJR	1
n-Butylbenzene	< 10	ug/l	10	33	10	8260B		10/6/2015	CJR	1
Carbon Tetrachloride	< 5.1	ug/l	5.1	16	10	8260B		10/6/2015	CJR	1
Chlorobenzene	< 4.6	ug/l	4.6	14	10	8260B		10/6/2015	CJR	1
Chloroethane	< 6.5	ug/l	6.5	21	10	8260B		10/6/2015	CJR	1
Chloroform	< 4.3	ug/l	4.3	14	10	8260B		10/6/2015	CJR	1
Chloromethane	< 19	ug/l	19	60	10	8260B		10/6/2015	CJR	1
2-Chlorotoluene	< 4	ug/l	4	13	10	8260B		10/6/2015	CJR	1
4-Chlorotoluene	< 6.3	ug/l	6.3	20	10	8260B		10/6/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 14	ug/l	14	45	10	8260B		10/6/2015	CJR	1
Dibromochloromethane	< 4.5	ug/l	4.5	14	10	8260B		10/6/2015	CJR	1
1,4-Dichlorobenzene	< 4.9	ug/l	4.9	16	10	8260B		10/6/2015	CJR	1
1,3-Dichlorobenzene	< 5.2	ug/l	5.2	16	10	8260B		10/6/2015	CJR	1
1,2-Dichlorobenzene	< 4.6	ug/l	4.6	15	10	8260B		10/6/2015	CJR	1
Dichlorodifluoromethane	< 8.7	ug/l	8.7	28	10	8260B		10/6/2015	CJR	1
1,2-Dichloroethane	< 4.8	ug/l	4.8	15	10	8260B		10/6/2015	CJR	1
1,1-Dichloroethane	< 11	ug/l	11	36	10	8260B		10/6/2015	CJR	1
1,1-Dichloroethene	< 6.5	ug/l	6.5	21	10	8260B		10/6/2015	CJR	1
cis-1,2-Dichloroethene	61	ug/l	4.5	14	10	8260B		10/6/2015	CJR	1
trans-1,2-Dichloroethene	< 5.4	ug/l	5.4	17	10	8260B		10/6/2015	CJR	1
1,2-Dichloropropane	< 4.3	ug/l	4.3	13.7	10	8260B		10/6/2015	CJR	1
2,2-Dichloropropane	< 31	ug/l	31	98	10	8260B		10/6/2015	CJR	1
1,3-Dichloropropane	< 4.2	ug/l	4.2	13	10	8260B		10/6/2015	CJR	1
Di-isopropyl ether	< 4.4	ug/l	4.4	14	10	8260B		10/6/2015	CJR	1
EDB (1,2-Dibromoethane)	< 6.3	ug/l	6.3	20	10	8260B		10/6/2015	CJR	1
Ethylbenzene	< 7.1	ug/l	7.1	23	10	8260B		10/6/2015	CJR	1
Hexachlorobutadiene	< 22	ug/l	22	71	10	8260B		10/6/2015	CJR	1
Isopropylbenzene	< 8.2	ug/l	8.2	26	10	8260B		10/6/2015	CJR	1
p-Isopropyltoluene	< 11	ug/l	11	35	10	8260B		10/6/2015	CJR	1
Methylene chloride	< 13	ug/l	13	42	10	8260B		10/6/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 11	ug/l	11	37	10	8260B		10/6/2015	CJR	1
Naphthalene	< 16	ug/l	16	52	10	8260B		10/6/2015	CJR	1
n-Propylbenzene	< 7.7	ug/l	7.7	24	10	8260B		10/6/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 5.2	ug/l	5.2	17	10	8260B		10/6/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 4.8	ug/l	4.8	15	10	8260B		10/6/2015	CJR	1
Tetrachloroethene	89	ug/l	4.9	15	10	8260B		10/6/2015	CJR	1
Toluene	< 4.4	ug/l	4.4	14	10	8260B		10/6/2015	CJR	1
1,2,4-Trichlorobenzene	< 17	ug/l	17	56	10	8260B		10/6/2015	CJR	1
1,2,3-Trichlorobenzene	< 27	ug/l	27	86	10	8260B		10/6/2015	CJR	1
1,1,1-Trichloroethane	< 8.4	ug/l	8.4	27	10	8260B		10/6/2015	CJR	1
1,1,2-Trichloroethane	< 4.8	ug/l	4.8	15.2	10	8260B		10/6/2015	CJR	1
Trichloroethene (TCE)	54	ug/l	4.7	15	10	8260B		10/6/2015	CJR	1
Trichlorofluoromethane	< 8.7	ug/l	8.7	28	10	8260B		10/6/2015	CJR	1
1,2,4-Trimethylbenzene	< 16	ug/l	16	50	10	8260B		10/6/2015	CJR	1
1,3,5-Trimethylbenzene	< 15	ug/l	15	48	10	8260B		10/6/2015	CJR	1
Vinyl Chloride	27.7	ug/l	1.7	5.4	10	8260B		10/6/2015	CJR	1
m&p-Xylene	< 22	ug/l	22	69	10	8260B		10/6/2015	CJR	1
o-Xylene	< 9	ug/l	9	29	10	8260B		10/6/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %				8260B		10/6/2015	CJR	1
SUR - 4-Bromofluorobenzene	114	REC %				8260B		10/6/2015	CJR	1
SUR - Dibromofluoromethane	105	REC %				8260B		10/6/2015	CJR	1
SUR - Toluene-d8	109	REC %				8260B		10/6/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795C
 Sample ID W-MW-10
 Sample Matrix Water
 Sample Date 9/29/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 4.4	ug/l	4.4	14	10	8260B		10/6/2015	CJR	1
Bromobenzene	< 4.8	ug/l	4.8	15	10	8260B		10/6/2015	CJR	1
Bromodichloromethane	< 4.6	ug/l	4.6	15	10	8260B		10/6/2015	CJR	1
Bromoform	< 4.6	ug/l	4.6	15	10	8260B		10/6/2015	CJR	1
tert-Butylbenzene	< 11	ug/l	11	34	10	8260B		10/6/2015	CJR	1
sec-Butylbenzene	< 12	ug/l	12	38	10	8260B		10/6/2015	CJR	1
n-Butylbenzene	< 10	ug/l	10	33	10	8260B		10/6/2015	CJR	1
Carbon Tetrachloride	< 5.1	ug/l	5.1	16	10	8260B		10/6/2015	CJR	1
Chlorobenzene	< 4.6	ug/l	4.6	14	10	8260B		10/6/2015	CJR	1
Chloroethane	< 6.5	ug/l	6.5	21	10	8260B		10/6/2015	CJR	1
Chloroform	< 4.3	ug/l	4.3	14	10	8260B		10/6/2015	CJR	1
Chloromethane	< 19	ug/l	19	60	10	8260B		10/6/2015	CJR	1
2-Chlorotoluene	< 4	ug/l	4	13	10	8260B		10/6/2015	CJR	1
4-Chlorotoluene	< 6.3	ug/l	6.3	20	10	8260B		10/6/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 14	ug/l	14	45	10	8260B		10/6/2015	CJR	1
Dibromochloromethane	< 4.5	ug/l	4.5	14	10	8260B		10/6/2015	CJR	1
1,4-Dichlorobenzene	< 4.9	ug/l	4.9	16	10	8260B		10/6/2015	CJR	1
1,3-Dichlorobenzene	< 5.2	ug/l	5.2	16	10	8260B		10/6/2015	CJR	1
1,2-Dichlorobenzene	< 4.6	ug/l	4.6	15	10	8260B		10/6/2015	CJR	1
Dichlorodifluoromethane	< 8.7	ug/l	8.7	28	10	8260B		10/6/2015	CJR	1
1,2-Dichloroethane	< 4.8	ug/l	4.8	15	10	8260B		10/6/2015	CJR	1
1,1-Dichloroethane	< 11	ug/l	11	36	10	8260B		10/6/2015	CJR	1
1,1-Dichloroethene	< 6.5	ug/l	6.5	21	10	8260B		10/6/2015	CJR	1
cis-1,2-Dichloroethene	520	ug/l	4.5	14	10	8260B		10/6/2015	CJR	1
trans-1,2-Dichloroethene	7 "J"	ug/l	5.4	17	10	8260B		10/6/2015	CJR	1
1,2-Dichloropropane	< 4.3	ug/l	4.3	13.7	10	8260B		10/6/2015	CJR	1
2,2-Dichloropropane	< 31	ug/l	31	98	10	8260B		10/6/2015	CJR	1
1,3-Dichloropropane	< 4.2	ug/l	4.2	13	10	8260B		10/6/2015	CJR	1
Di-isopropyl ether	< 4.4	ug/l	4.4	14	10	8260B		10/6/2015	CJR	1
EDB (1,2-Dibromoethane)	< 6.3	ug/l	6.3	20	10	8260B		10/6/2015	CJR	1
Ethylbenzene	< 7.1	ug/l	7.1	23	10	8260B		10/6/2015	CJR	1
Hexachlorobutadiene	< 22	ug/l	22	71	10	8260B		10/6/2015	CJR	1
Isopropylbenzene	< 8.2	ug/l	8.2	26	10	8260B		10/6/2015	CJR	1
p-Isopropyltoluene	< 11	ug/l	11	35	10	8260B		10/6/2015	CJR	1
Methylene chloride	< 13	ug/l	13	42	10	8260B		10/6/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 11	ug/l	11	37	10	8260B		10/6/2015	CJR	1
Naphthalene	< 16	ug/l	16	52	10	8260B		10/6/2015	CJR	1
n-Propylbenzene	< 7.7	ug/l	7.7	24	10	8260B		10/6/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 5.2	ug/l	5.2	17	10	8260B		10/6/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 4.8	ug/l	4.8	15	10	8260B		10/6/2015	CJR	1
Tetrachloroethene	8.8 "J"	ug/l	4.9	15	10	8260B		10/6/2015	CJR	1
Toluene	< 4.4	ug/l	4.4	14	10	8260B		10/6/2015	CJR	1
1,2,4-Trichlorobenzene	< 17	ug/l	17	56	10	8260B		10/6/2015	CJR	1
1,2,3-Trichlorobenzene	< 27	ug/l	27	86	10	8260B		10/6/2015	CJR	1
1,1,1-Trichloroethane	< 8.4	ug/l	8.4	27	10	8260B		10/6/2015	CJR	1
1,1,2-Trichloroethane	< 4.8	ug/l	4.8	15.2	10	8260B		10/6/2015	CJR	1
Trichloroethene (TCE)	220	ug/l	4.7	15	10	8260B		10/6/2015	CJR	1
Trichlorofluoromethane	< 8.7	ug/l	8.7	28	10	8260B		10/6/2015	CJR	1
1,2,4-Trimethylbenzene	< 16	ug/l	16	50	10	8260B		10/6/2015	CJR	1
1,3,5-Trimethylbenzene	< 15	ug/l	15	48	10	8260B		10/6/2015	CJR	1
Vinyl Chloride	168	ug/l	1.7	5.4	10	8260B		10/6/2015	CJR	1
m&p-Xylene	< 22	ug/l	22	69	10	8260B		10/6/2015	CJR	1
o-Xylene	< 9	ug/l	9	29	10	8260B		10/6/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %				8260B		10/6/2015	CJR	1
SUR - 4-Bromofluorobenzene	116	REC %				8260B		10/6/2015	CJR	1
SUR - Dibromofluoromethane	107	REC %				8260B		10/6/2015	CJR	1
SUR - Toluene-d8	105	REC %				8260B		10/6/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795D
 Sample ID PZ-C
 Sample Matrix Water
 Sample Date 9/29/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		10/6/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		10/6/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		10/6/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		10/6/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		10/6/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		10/6/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		10/6/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		10/6/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		10/6/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		10/6/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		10/6/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		10/6/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		10/6/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		10/6/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		10/6/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		10/6/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		10/6/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		10/6/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		10/6/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/6/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/6/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		10/6/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		10/6/2015	CJR	1
cis-1,2-Dichloroethene	6.0	ug/l	0.45	1.4	1	8260B		10/6/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		10/6/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		10/6/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		10/6/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		10/6/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		10/6/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		10/6/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		10/6/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		10/6/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		10/6/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		10/6/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		10/6/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		10/6/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		10/6/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		10/6/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		10/6/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/6/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		10/6/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		10/6/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		10/6/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		10/6/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		10/6/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		10/6/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		10/6/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/6/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		10/6/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		10/6/2015	CJR	1
Vinyl Chloride	11.3	ug/l	0.17	0.54	1	8260B		10/6/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		10/6/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		10/6/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/6/2015	CJR	1
SUR - 4-Bromofluorobenzene	111	REC %			1	8260B		10/6/2015	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		10/6/2015	CJR	1
SUR - Toluene-d8	105	REC %			1	8260B		10/6/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795E
 Sample ID W-MW-11
 Sample Matrix Water
 Sample Date 9/29/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 88	ug/l	88	280	200	8260B		10/6/2015	CJR	1
Bromobenzene	< 96	ug/l	96	300	200	8260B		10/6/2015	CJR	1
Bromodichloromethane	< 92	ug/l	92	300	200	8260B		10/6/2015	CJR	1
Bromoform	< 92	ug/l	92	300	200	8260B		10/6/2015	CJR	1
tert-Butylbenzene	< 220	ug/l	220	680	200	8260B		10/6/2015	CJR	1
sec-Butylbenzene	< 240	ug/l	240	760	200	8260B		10/6/2015	CJR	1
n-Butylbenzene	< 200	ug/l	200	660	200	8260B		10/6/2015	CJR	1
Carbon Tetrachloride	< 102	ug/l	102	320	200	8260B		10/6/2015	CJR	1
Chlorobenzene	< 92	ug/l	92	280	200	8260B		10/6/2015	CJR	1
Chloroethane	< 130	ug/l	130	420	200	8260B		10/6/2015	CJR	1
Chloroform	< 86	ug/l	86	280	200	8260B		10/6/2015	CJR	1
Chloromethane	< 380	ug/l	380	1200	200	8260B		10/6/2015	CJR	1
2-Chlorotoluene	< 80	ug/l	80	260	200	8260B		10/6/2015	CJR	1
4-Chlorotoluene	< 126	ug/l	126	400	200	8260B		10/6/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 280	ug/l	280	900	200	8260B		10/6/2015	CJR	1
Dibromochloromethane	< 90	ug/l	90	280	200	8260B		10/6/2015	CJR	1
1,4-Dichlorobenzene	< 98	ug/l	98	320	200	8260B		10/6/2015	CJR	1
1,3-Dichlorobenzene	< 104	ug/l	104	320	200	8260B		10/6/2015	CJR	1
1,2-Dichlorobenzene	< 92	ug/l	92	300	200	8260B		10/6/2015	CJR	1
Dichlorodifluoromethane	< 174	ug/l	174	560	200	8260B		10/6/2015	CJR	1
1,2-Dichloroethane	< 96	ug/l	96	300	200	8260B		10/6/2015	CJR	1
1,1-Dichloroethane	< 220	ug/l	220	720	200	8260B		10/6/2015	CJR	1
1,1-Dichloroethene	< 130	ug/l	130	420	200	8260B		10/6/2015	CJR	1
cis-1,2-Dichloroethene	4700	ug/l	90	280	200	8260B		10/6/2015	CJR	1
trans-1,2-Dichloroethene	< 108	ug/l	108	340	200	8260B		10/6/2015	CJR	1
1,2-Dichloropropane	< 86	ug/l	86	274	200	8260B		10/6/2015	CJR	1
2,2-Dichloropropane	< 620	ug/l	620	1960	200	8260B		10/6/2015	CJR	1
1,3-Dichloropropane	< 84	ug/l	84	260	200	8260B		10/6/2015	CJR	1
Di-isopropyl ether	< 88	ug/l	88	280	200	8260B		10/6/2015	CJR	1
EDB (1,2-Dibromoethane)	< 126	ug/l	126	400	200	8260B		10/6/2015	CJR	1
Ethylbenzene	< 142	ug/l	142	460	200	8260B		10/6/2015	CJR	1
Hexachlorobutadiene	< 440	ug/l	440	1420	200	8260B		10/6/2015	CJR	1
Isopropylbenzene	< 164	ug/l	164	520	200	8260B		10/6/2015	CJR	1
p-Isopropyltoluene	< 220	ug/l	220	700	200	8260B		10/6/2015	CJR	1
Methylene chloride	< 260	ug/l	260	840	200	8260B		10/6/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 220	ug/l	220	740	200	8260B		10/6/2015	CJR	1
Naphthalene	< 320	ug/l	320	1040	200	8260B		10/6/2015	CJR	1
n-Propylbenzene	< 154	ug/l	154	480	200	8260B		10/6/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 104	ug/l	104	340	200	8260B		10/6/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 96	ug/l	96	300	200	8260B		10/6/2015	CJR	1
Tetrachloroethene	< 98	ug/l	98	300	200	8260B		10/6/2015	CJR	1
Toluene	< 88	ug/l	88	280	200	8260B		10/6/2015	CJR	1
1,2,4-Trichlorobenzene	< 340	ug/l	340	1120	200	8260B		10/6/2015	CJR	1
1,2,3-Trichlorobenzene	< 540	ug/l	540	1720	200	8260B		10/6/2015	CJR	1
1,1,1-Trichloroethane	< 168	ug/l	168	540	200	8260B		10/6/2015	CJR	1
1,1,2-Trichloroethane	< 96	ug/l	96	304	200	8260B		10/6/2015	CJR	1
Trichloroethene (TCE)	< 94	ug/l	94	300	200	8260B		10/6/2015	CJR	1
Trichlorofluoromethane	< 174	ug/l	174	560	200	8260B		10/6/2015	CJR	1
1,2,4-Trimethylbenzene	< 320	ug/l	320	1000	200	8260B		10/6/2015	CJR	1
1,3,5-Trimethylbenzene	< 300	ug/l	300	960	200	8260B		10/6/2015	CJR	1
Vinyl Chloride	304	ug/l	34	108	200	8260B		10/6/2015	CJR	1
m&p-Xylene	< 440	ug/l	440	1380	200	8260B		10/6/2015	CJR	1
o-Xylene	< 180	ug/l	180	580	200	8260B		10/6/2015	CJR	1
SUR - 4-Bromofluorobenzene	120	REC %				8260B		10/6/2015	CJR	1
SUR - Dibromofluoromethane	106	REC %				8260B		10/6/2015	CJR	1
SUR - Toluene-d8	108	REC %				8260B		10/6/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %				8260B		10/6/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795F
 Sample ID MW-26
 Sample Matrix Water
 Sample Date 9/29/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	0.44 "J"	ug/l	0.44	1.4	1	8260B		10/6/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		10/6/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		10/6/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		10/6/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		10/6/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		10/6/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		10/6/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		10/6/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		10/6/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		10/6/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		10/6/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		10/6/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		10/6/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		10/6/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		10/6/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		10/6/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		10/6/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		10/6/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		10/6/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/6/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/6/2015	CJR	1
1,1-Dichloroethane	2.54 "J"	ug/l	1.1	3.6	1	8260B		10/6/2015	CJR	1
1,1-Dichloroethene	1.63 "J"	ug/l	0.65	2.1	1	8260B		10/6/2015	CJR	1
cis-1,2-Dichloroethene	2040	ug/l	22.5	70	50	8260B		10/8/2015	CJR	1
trans-1,2-Dichloroethene	35	ug/l	0.54	1.7	1	8260B		10/6/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		10/6/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		10/6/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		10/6/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		10/6/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		10/6/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		10/6/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		10/6/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		10/6/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		10/6/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		10/6/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		10/6/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		10/6/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		10/6/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		10/6/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/6/2015	CJR	1
Tetrachloroethene	1.01 "J"	ug/l	0.49	1.5	1	8260B		10/6/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		10/6/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		10/6/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		10/6/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		10/6/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		10/6/2015	CJR	1
Trichloroethene (TCE)	10.4	ug/l	0.47	1.5	1	8260B		10/6/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/6/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		10/6/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		10/6/2015	CJR	1
Vinyl Chloride	440	ug/l	8.5	27	50	8260B		10/8/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		10/6/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		10/6/2015	CJR	1
SUR - Toluene-d8	107	REC %			1	8260B		10/6/2015	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		10/6/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		10/6/2015	CJR	1
SUR - 4-Bromofluorobenzene	112	REC %			1	8260B		10/6/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795G
 Sample ID MW-25
 Sample Matrix Water
 Sample Date 9/29/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 22	ug/l	22	70	50	8260B		10/6/2015	CJR	1
Bromobenzene	< 24	ug/l	24	75	50	8260B		10/6/2015	CJR	1
Bromodichloromethane	< 23	ug/l	23	75	50	8260B		10/6/2015	CJR	1
Bromoform	< 23	ug/l	23	75	50	8260B		10/6/2015	CJR	1
tert-Butylbenzene	< 55	ug/l	55	170	50	8260B		10/6/2015	CJR	1
sec-Butylbenzene	< 60	ug/l	60	190	50	8260B		10/6/2015	CJR	1
n-Butylbenzene	< 50	ug/l	50	165	50	8260B		10/6/2015	CJR	1
Carbon Tetrachloride	< 25.5	ug/l	25.5	80	50	8260B		10/6/2015	CJR	1
Chlorobenzene	< 23	ug/l	23	70	50	8260B		10/6/2015	CJR	1
Chloroethane	< 32.5	ug/l	32.5	105	50	8260B		10/6/2015	CJR	1
Chloroform	< 21.5	ug/l	21.5	70	50	8260B		10/6/2015	CJR	1
Chloromethane	< 95	ug/l	95	300	50	8260B		10/6/2015	CJR	1
2-Chlorotoluene	< 20	ug/l	20	65	50	8260B		10/6/2015	CJR	1
4-Chlorotoluene	< 31.5	ug/l	31.5	100	50	8260B		10/6/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 70	ug/l	70	225	50	8260B		10/6/2015	CJR	1
Dibromochloromethane	< 22.5	ug/l	22.5	70	50	8260B		10/6/2015	CJR	1
1,4-Dichlorobenzene	< 24.5	ug/l	24.5	80	50	8260B		10/6/2015	CJR	1
1,3-Dichlorobenzene	< 26	ug/l	26	80	50	8260B		10/6/2015	CJR	1
1,2-Dichlorobenzene	< 23	ug/l	23	75	50	8260B		10/6/2015	CJR	1
Dichlorodifluoromethane	< 43.5	ug/l	43.5	140	50	8260B		10/6/2015	CJR	1
1,2-Dichloroethane	< 24	ug/l	24	75	50	8260B		10/6/2015	CJR	1
1,1-Dichloroethane	< 55	ug/l	55	180	50	8260B		10/6/2015	CJR	1
1,1-Dichloroethene	< 32.5	ug/l	32.5	105	50	8260B		10/6/2015	CJR	1
cis-1,2-Dichloroethene	600	ug/l	22.5	70	50	8260B		10/6/2015	CJR	1
trans-1,2-Dichloroethene	< 27	ug/l	27	85	50	8260B		10/6/2015	CJR	1
1,2-Dichloropropane	< 21.5	ug/l	21.5	68.5	50	8260B		10/6/2015	CJR	1
2,2-Dichloropropane	< 155	ug/l	155	490	50	8260B		10/6/2015	CJR	1
1,3-Dichloropropane	< 21	ug/l	21	65	50	8260B		10/6/2015	CJR	1
Di-isopropyl ether	< 22	ug/l	22	70	50	8260B		10/6/2015	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		10/6/2015	CJR	1
Ethylbenzene	< 35.5	ug/l	35.5	115	50	8260B		10/6/2015	CJR	1
Hexachlorobutadiene	< 110	ug/l	110	355	50	8260B		10/6/2015	CJR	1
Isopropylbenzene	< 41	ug/l	41	130	50	8260B		10/6/2015	CJR	1
p-Isopropyltoluene	< 55	ug/l	55	175	50	8260B		10/6/2015	CJR	1
Methylene chloride	< 65	ug/l	65	210	50	8260B		10/6/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 55	ug/l	55	185	50	8260B		10/6/2015	CJR	1
Naphthalene	< 80	ug/l	80	260	50	8260B		10/6/2015	CJR	1
n-Propylbenzene	< 38.5	ug/l	38.5	120	50	8260B		10/6/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 26	ug/l	26	85	50	8260B		10/6/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 24	ug/l	24	75	50	8260B		10/6/2015	CJR	1
Tetrachloroethene	< 24.5	ug/l	24.5	75	50	8260B		10/6/2015	CJR	1
Toluene	< 22	ug/l	22	70	50	8260B		10/6/2015	CJR	1
1,2,4-Trichlorobenzene	< 85	ug/l	85	280	50	8260B		10/6/2015	CJR	1
1,2,3-Trichlorobenzene	< 135	ug/l	135	430	50	8260B		10/6/2015	CJR	1
1,1,1-Trichloroethane	< 42	ug/l	42	135	50	8260B		10/6/2015	CJR	1
1,1,2-Trichloroethane	< 24	ug/l	24	76	50	8260B		10/6/2015	CJR	1
Trichloroethene (TCE)	< 23.5	ug/l	23.5	75	50	8260B		10/6/2015	CJR	1
Trichlorofluoromethane	< 43.5	ug/l	43.5	140	50	8260B		10/6/2015	CJR	1
1,2,4-Trimethylbenzene	< 80	ug/l	80	250	50	8260B		10/6/2015	CJR	1
1,3,5-Trimethylbenzene	< 75	ug/l	75	240	50	8260B		10/6/2015	CJR	1
Vinyl Chloride	213	ug/l	8.5	27	50	8260B		10/6/2015	CJR	1
m&p-Xylene	< 110	ug/l	110	345	50	8260B		10/6/2015	CJR	1
o-Xylene	< 45	ug/l	45	145	50	8260B		10/6/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %				8260B		10/6/2015	CJR	1
SUR - Toluene-d8	107	REC %				8260B		10/6/2015	CJR	1
SUR - 4-Bromofluorobenzene	116	REC %				8260B		10/6/2015	CJR	1
SUR - Dibromofluoromethane	105	REC %				8260B		10/6/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795H
 Sample ID MW-D
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 22	ug/l	22	70	50	8260B		10/6/2015	CJR	1
Bromobenzene	< 24	ug/l	24	75	50	8260B		10/6/2015	CJR	1
Bromodichloromethane	< 23	ug/l	23	75	50	8260B		10/6/2015	CJR	1
Bromoform	< 23	ug/l	23	75	50	8260B		10/6/2015	CJR	1
tert-Butylbenzene	< 55	ug/l	55	170	50	8260B		10/6/2015	CJR	1
sec-Butylbenzene	< 60	ug/l	60	190	50	8260B		10/6/2015	CJR	1
n-Butylbenzene	< 50	ug/l	50	165	50	8260B		10/6/2015	CJR	1
Carbon Tetrachloride	< 25.5	ug/l	25.5	80	50	8260B		10/6/2015	CJR	1
Chlorobenzene	< 23	ug/l	23	70	50	8260B		10/6/2015	CJR	1
Chloroethane	< 32.5	ug/l	32.5	105	50	8260B		10/6/2015	CJR	1
Chloroform	< 21.5	ug/l	21.5	70	50	8260B		10/6/2015	CJR	1
Chloromethane	< 95	ug/l	95	300	50	8260B		10/6/2015	CJR	1
2-Chlorotoluene	< 20	ug/l	20	65	50	8260B		10/6/2015	CJR	1
4-Chlorotoluene	< 31.5	ug/l	31.5	100	50	8260B		10/6/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 70	ug/l	70	225	50	8260B		10/6/2015	CJR	1
Dibromochloromethane	< 22.5	ug/l	22.5	70	50	8260B		10/6/2015	CJR	1
1,4-Dichlorobenzene	< 24.5	ug/l	24.5	80	50	8260B		10/6/2015	CJR	1
1,3-Dichlorobenzene	< 26	ug/l	26	80	50	8260B		10/6/2015	CJR	1
1,2-Dichlorobenzene	< 23	ug/l	23	75	50	8260B		10/6/2015	CJR	1
Dichlorodifluoromethane	< 43.5	ug/l	43.5	140	50	8260B		10/6/2015	CJR	1
1,2-Dichloroethane	< 24	ug/l	24	75	50	8260B		10/6/2015	CJR	1
1,1-Dichloroethane	77 "J"	ug/l	55	180	50	8260B		10/6/2015	CJR	1
1,1-Dichloroethene	66 "J"	ug/l	32.5	105	50	8260B		10/6/2015	CJR	1
cis-1,2-Dichloroethene	158000	ug/l	450	1400	1000	8260B		10/7/2015	CJR	1
trans-1,2-Dichloroethene	1190	ug/l	27	85	50	8260B		10/6/2015	CJR	1
1,2-Dichloropropane	< 21.5	ug/l	21.5	68.5	50	8260B		10/6/2015	CJR	1
2,2-Dichloropropane	< 155	ug/l	155	490	50	8260B		10/6/2015	CJR	1
1,3-Dichloropropane	< 21	ug/l	21	65	50	8260B		10/6/2015	CJR	1
Di-isopropyl ether	< 22	ug/l	22	70	50	8260B		10/6/2015	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		10/6/2015	CJR	1
Ethylbenzene	< 35.5	ug/l	35.5	115	50	8260B		10/6/2015	CJR	1
Hexachlorobutadiene	< 110	ug/l	110	355	50	8260B		10/6/2015	CJR	1
Isopropylbenzene	< 41	ug/l	41	130	50	8260B		10/6/2015	CJR	1
p-Isopropyltoluene	< 55	ug/l	55	175	50	8260B		10/6/2015	CJR	1
Methylene chloride	< 65	ug/l	65	210	50	8260B		10/6/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 55	ug/l	55	185	50	8260B		10/6/2015	CJR	1
Naphthalene	< 80	ug/l	80	260	50	8260B		10/6/2015	CJR	1
n-Propylbenzene	< 38.5	ug/l	38.5	120	50	8260B		10/6/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 26	ug/l	26	85	50	8260B		10/6/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 24	ug/l	24	75	50	8260B		10/6/2015	CJR	1
Tetrachloroethene	920	ug/l	24.5	75	50	8260B		10/6/2015	CJR	1
Toluene	< 22	ug/l	22	70	50	8260B		10/6/2015	CJR	1
1,2,4-Trichlorobenzene	< 85	ug/l	85	280	50	8260B		10/6/2015	CJR	1
1,2,3-Trichlorobenzene	< 135	ug/l	135	430	50	8260B		10/6/2015	CJR	1
1,1,1-Trichloroethane	580	ug/l	42	135	50	8260B		10/6/2015	CJR	1
1,1,2-Trichloroethane	< 24	ug/l	24	76	50	8260B		10/6/2015	CJR	1
Trichloroethene (TCE)	2550	ug/l	23.5	75	50	8260B		10/6/2015	CJR	1
Trichlorofluoromethane	< 43.5	ug/l	43.5	140	50	8260B		10/6/2015	CJR	1
1,2,4-Trimethylbenzene	< 80	ug/l	80	250	50	8260B		10/6/2015	CJR	1
1,3,5-Trimethylbenzene	< 75	ug/l	75	240	50	8260B		10/6/2015	CJR	1
Vinyl Chloride	206	ug/l	8.5	27	50	8260B		10/6/2015	CJR	1
m&p-Xylene	< 110	ug/l	110	345	50	8260B		10/6/2015	CJR	1
o-Xylene	< 45	ug/l	45	145	50	8260B		10/6/2015	CJR	1
SUR - Dibromofluoromethane	102	REC %				8260B		10/6/2015	CJR	1
SUR - Toluene-d8	108	REC %				8260B		10/6/2015	CJR	1
SUR - 4-Bromofluorobenzene	120	REC %				8260B		10/6/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %				8260B		10/6/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795I
 Sample ID PZ-D
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 22	ug/l	22	70	50	8260B		10/6/2015	CJR	1
Bromobenzene	< 24	ug/l	24	75	50	8260B		10/6/2015	CJR	1
Bromodichloromethane	< 23	ug/l	23	75	50	8260B		10/6/2015	CJR	1
Bromoform	< 23	ug/l	23	75	50	8260B		10/6/2015	CJR	1
tert-Butylbenzene	< 55	ug/l	55	170	50	8260B		10/6/2015	CJR	1
sec-Butylbenzene	< 60	ug/l	60	190	50	8260B		10/6/2015	CJR	1
n-Butylbenzene	< 50	ug/l	50	165	50	8260B		10/6/2015	CJR	1
Carbon Tetrachloride	< 25.5	ug/l	25.5	80	50	8260B		10/6/2015	CJR	1
Chlorobenzene	< 23	ug/l	23	70	50	8260B		10/6/2015	CJR	1
Chloroethane	< 32.5	ug/l	32.5	105	50	8260B		10/6/2015	CJR	1
Chloroform	< 21.5	ug/l	21.5	70	50	8260B		10/6/2015	CJR	1
Chloromethane	< 95	ug/l	95	300	50	8260B		10/6/2015	CJR	1
2-Chlorotoluene	< 20	ug/l	20	65	50	8260B		10/6/2015	CJR	1
4-Chlorotoluene	< 31.5	ug/l	31.5	100	50	8260B		10/6/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 70	ug/l	70	225	50	8260B		10/6/2015	CJR	1
Dibromochloromethane	< 22.5	ug/l	22.5	70	50	8260B		10/6/2015	CJR	1
1,4-Dichlorobenzene	< 24.5	ug/l	24.5	80	50	8260B		10/6/2015	CJR	1
1,3-Dichlorobenzene	< 26	ug/l	26	80	50	8260B		10/6/2015	CJR	1
1,2-Dichlorobenzene	< 23	ug/l	23	75	50	8260B		10/6/2015	CJR	1
Dichlorodifluoromethane	< 43.5	ug/l	43.5	140	50	8260B		10/6/2015	CJR	1
1,2-Dichloroethane	< 24	ug/l	24	75	50	8260B		10/6/2015	CJR	1
1,1-Dichloroethane	< 55	ug/l	55	180	50	8260B		10/6/2015	CJR	1
1,1-Dichloroethene	< 32.5	ug/l	32.5	105	50	8260B		10/6/2015	CJR	1
cis-1,2-Dichloroethene	3150	ug/l	22.5	70	50	8260B		10/6/2015	CJR	1
trans-1,2-Dichloroethene	< 27	ug/l	27	85	50	8260B		10/6/2015	CJR	1
1,2-Dichloropropane	< 21.5	ug/l	21.5	68.5	50	8260B		10/6/2015	CJR	1
2,2-Dichloropropane	< 155	ug/l	155	490	50	8260B		10/6/2015	CJR	1
1,3-Dichloropropane	< 21	ug/l	21	65	50	8260B		10/6/2015	CJR	1
Di-isopropyl ether	< 22	ug/l	22	70	50	8260B		10/6/2015	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		10/6/2015	CJR	1
Ethylbenzene	< 35.5	ug/l	35.5	115	50	8260B		10/6/2015	CJR	1
Hexachlorobutadiene	< 110	ug/l	110	355	50	8260B		10/6/2015	CJR	1
Isopropylbenzene	< 41	ug/l	41	130	50	8260B		10/6/2015	CJR	1
p-Isopropyltoluene	< 55	ug/l	55	175	50	8260B		10/6/2015	CJR	1
Methylene chloride	< 65	ug/l	65	210	50	8260B		10/6/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 55	ug/l	55	185	50	8260B		10/6/2015	CJR	1
Naphthalene	< 80	ug/l	80	260	50	8260B		10/6/2015	CJR	1
n-Propylbenzene	< 38.5	ug/l	38.5	120	50	8260B		10/6/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 26	ug/l	26	85	50	8260B		10/6/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 24	ug/l	24	75	50	8260B		10/6/2015	CJR	1
Tetrachloroethene	< 24.5	ug/l	24.5	75	50	8260B		10/6/2015	CJR	1
Toluene	< 22	ug/l	22	70	50	8260B		10/6/2015	CJR	1
1,2,4-Trichlorobenzene	< 85	ug/l	85	280	50	8260B		10/6/2015	CJR	1
1,2,3-Trichlorobenzene	< 135	ug/l	135	430	50	8260B		10/6/2015	CJR	1
1,1,1-Trichloroethane	< 42	ug/l	42	135	50	8260B		10/6/2015	CJR	1
1,1,2-Trichloroethane	< 24	ug/l	24	76	50	8260B		10/6/2015	CJR	1
Trichloroethene (TCE)	< 23.5	ug/l	23.5	75	50	8260B		10/6/2015	CJR	1
Trichlorofluoromethane	< 43.5	ug/l	43.5	140	50	8260B		10/6/2015	CJR	1
1,2,4-Trimethylbenzene	< 80	ug/l	80	250	50	8260B		10/6/2015	CJR	1
1,3,5-Trimethylbenzene	< 75	ug/l	75	240	50	8260B		10/6/2015	CJR	1
Vinyl Chloride	1140	ug/l	8.5	27	50	8260B		10/6/2015	CJR	1
m&p-Xylene	< 110	ug/l	110	345	50	8260B		10/6/2015	CJR	1
o-Xylene	< 45	ug/l	45	145	50	8260B		10/6/2015	CJR	1
SUR - Toluene-d8	109	REC %				8260B		10/6/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %				8260B		10/6/2015	CJR	1
SUR - 4-Bromofluorobenzene	112	REC %				8260B		10/6/2015	CJR	1
SUR - Dibromofluoromethane	104	REC %				8260B		10/6/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795J
 Sample ID MW-22
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 88	ug/l	88	280	200	8260B		10/6/2015	CJR	1
Bromobenzene	< 96	ug/l	96	300	200	8260B		10/6/2015	CJR	1
Bromodichloromethane	< 92	ug/l	92	300	200	8260B		10/6/2015	CJR	1
Bromoform	< 92	ug/l	92	300	200	8260B		10/6/2015	CJR	1
tert-Butylbenzene	< 220	ug/l	220	680	200	8260B		10/6/2015	CJR	1
sec-Butylbenzene	< 240	ug/l	240	760	200	8260B		10/6/2015	CJR	1
n-Butylbenzene	< 200	ug/l	200	660	200	8260B		10/6/2015	CJR	1
Carbon Tetrachloride	< 102	ug/l	102	320	200	8260B		10/6/2015	CJR	1
Chlorobenzene	< 92	ug/l	92	280	200	8260B		10/6/2015	CJR	1
Chloroethane	< 130	ug/l	130	420	200	8260B		10/6/2015	CJR	1
Chloroform	< 86	ug/l	86	280	200	8260B		10/6/2015	CJR	1
Chloromethane	< 380	ug/l	380	1200	200	8260B		10/6/2015	CJR	1
2-Chlorotoluene	< 80	ug/l	80	260	200	8260B		10/6/2015	CJR	1
4-Chlorotoluene	< 126	ug/l	126	400	200	8260B		10/6/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 280	ug/l	280	900	200	8260B		10/6/2015	CJR	1
Dibromochloromethane	< 90	ug/l	90	280	200	8260B		10/6/2015	CJR	1
1,4-Dichlorobenzene	< 98	ug/l	98	320	200	8260B		10/6/2015	CJR	1
1,3-Dichlorobenzene	< 104	ug/l	104	320	200	8260B		10/6/2015	CJR	1
1,2-Dichlorobenzene	< 92	ug/l	92	300	200	8260B		10/6/2015	CJR	1
Dichlorodifluoromethane	< 174	ug/l	174	560	200	8260B		10/6/2015	CJR	1
1,2-Dichloroethane	< 96	ug/l	96	300	200	8260B		10/6/2015	CJR	1
1,1-Dichloroethane	< 220	ug/l	220	720	200	8260B		10/6/2015	CJR	1
1,1-Dichloroethene	< 130	ug/l	130	420	200	8260B		10/6/2015	CJR	1
cis-1,2-Dichloroethene	4200	ug/l	90	280	200	8260B		10/6/2015	CJR	1
trans-1,2-Dichloroethene	< 108	ug/l	108	340	200	8260B		10/6/2015	CJR	1
1,2-Dichloropropane	< 86	ug/l	86	274	200	8260B		10/6/2015	CJR	1
2,2-Dichloropropane	< 620	ug/l	620	1960	200	8260B		10/6/2015	CJR	1
1,3-Dichloropropane	< 84	ug/l	84	260	200	8260B		10/6/2015	CJR	1
Di-isopropyl ether	< 88	ug/l	88	280	200	8260B		10/6/2015	CJR	1
EDB (1,2-Dibromoethane)	< 126	ug/l	126	400	200	8260B		10/6/2015	CJR	1
Ethylbenzene	< 142	ug/l	142	460	200	8260B		10/6/2015	CJR	1
Hexachlorobutadiene	< 440	ug/l	440	1420	200	8260B		10/6/2015	CJR	1
Isopropylbenzene	< 164	ug/l	164	520	200	8260B		10/6/2015	CJR	1
p-Isopropyltoluene	< 220	ug/l	220	700	200	8260B		10/6/2015	CJR	1
Methylene chloride	< 260	ug/l	260	840	200	8260B		10/6/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 220	ug/l	220	740	200	8260B		10/6/2015	CJR	1
Naphthalene	< 320	ug/l	320	1040	200	8260B		10/6/2015	CJR	1
n-Propylbenzene	< 154	ug/l	154	480	200	8260B		10/6/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 104	ug/l	104	340	200	8260B		10/6/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 96	ug/l	96	300	200	8260B		10/6/2015	CJR	1
Tetrachloroethene	< 98	ug/l	98	300	200	8260B		10/6/2015	CJR	1
Toluene	< 88	ug/l	88	280	200	8260B		10/6/2015	CJR	1
1,2,4-Trichlorobenzene	< 340	ug/l	340	1120	200	8260B		10/6/2015	CJR	1
1,2,3-Trichlorobenzene	< 540	ug/l	540	1720	200	8260B		10/6/2015	CJR	1
1,1,1-Trichloroethane	< 168	ug/l	168	540	200	8260B		10/6/2015	CJR	1
1,1,2-Trichloroethane	< 96	ug/l	96	304	200	8260B		10/6/2015	CJR	1
Trichloroethene (TCE)	< 94	ug/l	94	300	200	8260B		10/6/2015	CJR	1
Trichlorofluoromethane	< 174	ug/l	174	560	200	8260B		10/6/2015	CJR	1
1,2,4-Trimethylbenzene	< 320	ug/l	320	1000	200	8260B		10/6/2015	CJR	1
1,3,5-Trimethylbenzene	< 300	ug/l	300	960	200	8260B		10/6/2015	CJR	1
Vinyl Chloride	920	ug/l	34	108	200	8260B		10/6/2015	CJR	1
m&p-Xylene	< 440	ug/l	440	1380	200	8260B		10/6/2015	CJR	1
o-Xylene	< 180	ug/l	180	580	200	8260B		10/6/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %				8260B		10/6/2015	CJR	1
SUR - 4-Bromofluorobenzene	114	REC %				8260B		10/6/2015	CJR	1
SUR - Dibromofluoromethane	104	REC %				8260B		10/6/2015	CJR	1
SUR - Toluene-d8	108	REC %				8260B		10/6/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795K
 Sample ID MPS-P-1R
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 22	ug/l	22	70	50	8260B		10/6/2015	CJR	1
Bromobenzene	< 24	ug/l	24	75	50	8260B		10/6/2015	CJR	1
Bromodichloromethane	< 23	ug/l	23	75	50	8260B		10/6/2015	CJR	1
Bromoform	< 23	ug/l	23	75	50	8260B		10/6/2015	CJR	1
tert-Butylbenzene	< 55	ug/l	55	170	50	8260B		10/6/2015	CJR	1
sec-Butylbenzene	< 60	ug/l	60	190	50	8260B		10/6/2015	CJR	1
n-Butylbenzene	< 50	ug/l	50	165	50	8260B		10/6/2015	CJR	1
Carbon Tetrachloride	< 25.5	ug/l	25.5	80	50	8260B		10/6/2015	CJR	1
Chlorobenzene	< 23	ug/l	23	70	50	8260B		10/6/2015	CJR	1
Chloroethane	< 32.5	ug/l	32.5	105	50	8260B		10/6/2015	CJR	1
Chloroform	< 21.5	ug/l	21.5	70	50	8260B		10/6/2015	CJR	1
Chloromethane	< 95	ug/l	95	300	50	8260B		10/6/2015	CJR	1
2-Chlorotoluene	< 20	ug/l	20	65	50	8260B		10/6/2015	CJR	1
4-Chlorotoluene	< 31.5	ug/l	31.5	100	50	8260B		10/6/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 70	ug/l	70	225	50	8260B		10/6/2015	CJR	1
Dibromochloromethane	< 22.5	ug/l	22.5	70	50	8260B		10/6/2015	CJR	1
1,4-Dichlorobenzene	< 24.5	ug/l	24.5	80	50	8260B		10/6/2015	CJR	1
1,3-Dichlorobenzene	< 26	ug/l	26	80	50	8260B		10/6/2015	CJR	1
1,2-Dichlorobenzene	< 23	ug/l	23	75	50	8260B		10/6/2015	CJR	1
Dichlorodifluoromethane	< 43.5	ug/l	43.5	140	50	8260B		10/6/2015	CJR	1
1,2-Dichloroethane	< 24	ug/l	24	75	50	8260B		10/6/2015	CJR	1
1,1-Dichloroethane	< 55	ug/l	55	180	50	8260B		10/6/2015	CJR	1
1,1-Dichloroethene	< 32.5	ug/l	32.5	105	50	8260B		10/6/2015	CJR	1
cis-1,2-Dichloroethene	1600	ug/l	22.5	70	50	8260B		10/6/2015	CJR	1
trans-1,2-Dichloroethene	< 27	ug/l	27	85	50	8260B		10/6/2015	CJR	1
1,2-Dichloropropane	< 21.5	ug/l	21.5	68.5	50	8260B		10/6/2015	CJR	1
2,2-Dichloropropane	< 155	ug/l	155	490	50	8260B		10/6/2015	CJR	1
1,3-Dichloropropane	< 21	ug/l	21	65	50	8260B		10/6/2015	CJR	1
Di-isopropyl ether	< 22	ug/l	22	70	50	8260B		10/6/2015	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		10/6/2015	CJR	1
Ethylbenzene	< 35.5	ug/l	35.5	115	50	8260B		10/6/2015	CJR	1
Hexachlorobutadiene	< 110	ug/l	110	355	50	8260B		10/6/2015	CJR	1
Isopropylbenzene	< 41	ug/l	41	130	50	8260B		10/6/2015	CJR	1
p-Isopropyltoluene	< 55	ug/l	55	175	50	8260B		10/6/2015	CJR	1
Methylene chloride	< 65	ug/l	65	210	50	8260B		10/6/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 55	ug/l	55	185	50	8260B		10/6/2015	CJR	1
Naphthalene	< 80	ug/l	80	260	50	8260B		10/6/2015	CJR	1
n-Propylbenzene	< 38.5	ug/l	38.5	120	50	8260B		10/6/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 26	ug/l	26	85	50	8260B		10/6/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 24	ug/l	24	75	50	8260B		10/6/2015	CJR	1
Tetrachloroethene	< 24.5	ug/l	24.5	75	50	8260B		10/6/2015	CJR	1
Toluene	< 22	ug/l	22	70	50	8260B		10/6/2015	CJR	1
1,2,4-Trichlorobenzene	< 85	ug/l	85	280	50	8260B		10/6/2015	CJR	1
1,2,3-Trichlorobenzene	< 135	ug/l	135	430	50	8260B		10/6/2015	CJR	1
1,1,1-Trichloroethane	< 42	ug/l	42	135	50	8260B		10/6/2015	CJR	1
1,1,2-Trichloroethane	< 24	ug/l	24	76	50	8260B		10/6/2015	CJR	1
Trichloroethene (TCE)	< 23.5	ug/l	23.5	75	50	8260B		10/6/2015	CJR	1
Trichlorofluoromethane	< 43.5	ug/l	43.5	140	50	8260B		10/6/2015	CJR	1
1,2,4-Trimethylbenzene	< 80	ug/l	80	250	50	8260B		10/6/2015	CJR	1
1,3,5-Trimethylbenzene	< 75	ug/l	75	240	50	8260B		10/6/2015	CJR	1
Vinyl Chloride	780	ug/l	8.5	27	50	8260B		10/6/2015	CJR	1
m&p-Xylene	< 110	ug/l	110	345	50	8260B		10/6/2015	CJR	1
o-Xylene	< 45	ug/l	45	145	50	8260B		10/6/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %				8260B		10/6/2015	CJR	1
SUR - 4-Bromofluorobenzene	115	REC %				8260B		10/6/2015	CJR	1
SUR - Dibromofluoromethane	103	REC %				8260B		10/6/2015	CJR	1
SUR - Toluene-d8	104	REC %				8260B		10/6/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795L
 Sample ID MPS-P-2
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 4.4	ug/l	4.4	14	10	8260B		10/6/2015	CJR	1
Bromobenzene	< 4.8	ug/l	4.8	15	10	8260B		10/6/2015	CJR	1
Bromodichloromethane	< 4.6	ug/l	4.6	15	10	8260B		10/6/2015	CJR	1
Bromoform	< 4.6	ug/l	4.6	15	10	8260B		10/6/2015	CJR	1
tert-Butylbenzene	< 11	ug/l	11	34	10	8260B		10/6/2015	CJR	1
sec-Butylbenzene	< 12	ug/l	12	38	10	8260B		10/6/2015	CJR	1
n-Butylbenzene	< 10	ug/l	10	33	10	8260B		10/6/2015	CJR	1
Carbon Tetrachloride	< 5.1	ug/l	5.1	16	10	8260B		10/6/2015	CJR	1
Chlorobenzene	< 4.6	ug/l	4.6	14	10	8260B		10/6/2015	CJR	1
Chloroethane	< 6.5	ug/l	6.5	21	10	8260B		10/6/2015	CJR	1
Chloroform	< 4.3	ug/l	4.3	14	10	8260B		10/6/2015	CJR	1
Chloromethane	< 19	ug/l	19	60	10	8260B		10/6/2015	CJR	1
2-Chlorotoluene	< 4	ug/l	4	13	10	8260B		10/6/2015	CJR	1
4-Chlorotoluene	< 6.3	ug/l	6.3	20	10	8260B		10/6/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 14	ug/l	14	45	10	8260B		10/6/2015	CJR	1
Dibromochloromethane	< 4.5	ug/l	4.5	14	10	8260B		10/6/2015	CJR	1
1,4-Dichlorobenzene	< 4.9	ug/l	4.9	16	10	8260B		10/6/2015	CJR	1
1,3-Dichlorobenzene	< 5.2	ug/l	5.2	16	10	8260B		10/6/2015	CJR	1
1,2-Dichlorobenzene	< 4.6	ug/l	4.6	15	10	8260B		10/6/2015	CJR	1
Dichlorodifluoromethane	< 8.7	ug/l	8.7	28	10	8260B		10/6/2015	CJR	1
1,2-Dichloroethane	< 4.8	ug/l	4.8	15	10	8260B		10/6/2015	CJR	1
1,1-Dichloroethane	< 11	ug/l	11	36	10	8260B		10/6/2015	CJR	1
1,1-Dichloroethene	< 6.5	ug/l	6.5	21	10	8260B		10/6/2015	CJR	1
cis-1,2-Dichloroethene	1290	ug/l	4.5	14	10	8260B		10/6/2015	CJR	1
trans-1,2-Dichloroethene	6.6 "J"	ug/l	5.4	17	10	8260B		10/6/2015	CJR	1
1,2-Dichloropropane	< 4.3	ug/l	4.3	13.7	10	8260B		10/6/2015	CJR	1
2,2-Dichloropropane	< 31	ug/l	31	98	10	8260B		10/6/2015	CJR	1
1,3-Dichloropropane	< 4.2	ug/l	4.2	13	10	8260B		10/6/2015	CJR	1
Di-isopropyl ether	< 4.4	ug/l	4.4	14	10	8260B		10/6/2015	CJR	1
EDB (1,2-Dibromoethane)	< 6.3	ug/l	6.3	20	10	8260B		10/6/2015	CJR	1
Ethylbenzene	< 7.1	ug/l	7.1	23	10	8260B		10/6/2015	CJR	1
Hexachlorobutadiene	< 22	ug/l	22	71	10	8260B		10/6/2015	CJR	1
Isopropylbenzene	< 8.2	ug/l	8.2	26	10	8260B		10/6/2015	CJR	1
p-Isopropyltoluene	< 11	ug/l	11	35	10	8260B		10/6/2015	CJR	1
Methylene chloride	< 13	ug/l	13	42	10	8260B		10/6/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 11	ug/l	11	37	10	8260B		10/6/2015	CJR	1
Naphthalene	< 16	ug/l	16	52	10	8260B		10/6/2015	CJR	1
n-Propylbenzene	< 7.7	ug/l	7.7	24	10	8260B		10/6/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 5.2	ug/l	5.2	17	10	8260B		10/6/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 4.8	ug/l	4.8	15	10	8260B		10/6/2015	CJR	1
Tetrachloroethene	< 4.9	ug/l	4.9	15	10	8260B		10/6/2015	CJR	1
Toluene	< 4.4	ug/l	4.4	14	10	8260B		10/6/2015	CJR	1
1,2,4-Trichlorobenzene	< 17	ug/l	17	56	10	8260B		10/6/2015	CJR	1
1,2,3-Trichlorobenzene	< 27	ug/l	27	86	10	8260B		10/6/2015	CJR	1
1,1,1-Trichloroethane	< 8.4	ug/l	8.4	27	10	8260B		10/6/2015	CJR	1
1,1,2-Trichloroethane	< 4.8	ug/l	4.8	15.2	10	8260B		10/6/2015	CJR	1
Trichloroethene (TCE)	< 4.7	ug/l	4.7	15	10	8260B		10/6/2015	CJR	1
Trichlorofluoromethane	< 8.7	ug/l	8.7	28	10	8260B		10/6/2015	CJR	1
1,2,4-Trimethylbenzene	< 16	ug/l	16	50	10	8260B		10/6/2015	CJR	1
1,3,5-Trimethylbenzene	< 15	ug/l	15	48	10	8260B		10/6/2015	CJR	1
Vinyl Chloride	800	ug/l	1.7	5.4	10	8260B		10/6/2015	CJR	1
m&p-Xylene	< 22	ug/l	22	69	10	8260B		10/6/2015	CJR	1
o-Xylene	< 9	ug/l	9	29	10	8260B		10/6/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %				8260B		10/6/2015	CJR	1
SUR - 4-Bromofluorobenzene	118	REC %				8260B		10/6/2015	CJR	1
SUR - Dibromofluoromethane	102	REC %				8260B		10/6/2015	CJR	1
SUR - Toluene-d8	106	REC %				8260B		10/6/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795M
 Sample ID MPS-P-3
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		10/7/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		10/7/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		10/7/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		10/7/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		10/7/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		10/7/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		10/7/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		10/7/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		10/7/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		10/7/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		10/7/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		10/7/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		10/7/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		10/7/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		10/7/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		10/7/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		10/7/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		10/7/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		10/7/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/7/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/7/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		10/7/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		10/7/2015	CJR	1
cis-1,2-Dichloroethene	89	ug/l	0.45	1.4	1	8260B		10/7/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		10/7/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		10/7/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		10/7/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		10/7/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		10/7/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		10/7/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		10/7/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		10/7/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		10/7/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		10/7/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		10/7/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		10/7/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		10/7/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		10/7/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		10/7/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/7/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		10/7/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		10/7/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		10/7/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		10/7/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		10/7/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		10/7/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		10/7/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/7/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		10/7/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		10/7/2015	CJR	1
Vinyl Chloride	83	ug/l	0.17	0.54	1	8260B		10/7/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		10/7/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		10/7/2015	CJR	1
SUR - Toluene-d8	92	REC %			1	8260B		10/7/2015	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		10/7/2015	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		10/7/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/7/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795N
 Sample ID MPS-P-4
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 8.8	ug/l	8.8	28	20	8260B		10/8/2015	CJR	1
Bromobenzene	< 9.6	ug/l	9.6	30	20	8260B		10/8/2015	CJR	1
Bromodichloromethane	< 9.2	ug/l	9.2	30	20	8260B		10/8/2015	CJR	1
Bromoform	< 9.2	ug/l	9.2	30	20	8260B		10/8/2015	CJR	1
tert-Butylbenzene	< 22	ug/l	22	68	20	8260B		10/8/2015	CJR	1
sec-Butylbenzene	< 24	ug/l	24	76	20	8260B		10/8/2015	CJR	1
n-Butylbenzene	< 20	ug/l	20	66	20	8260B		10/8/2015	CJR	1
Carbon Tetrachloride	< 10.2	ug/l	10.2	32	20	8260B		10/8/2015	CJR	1
Chlorobenzene	< 9.2	ug/l	9.2	28	20	8260B		10/8/2015	CJR	1
Chloroethane	< 13	ug/l	13	42	20	8260B		10/8/2015	CJR	1
Chloroform	< 8.6	ug/l	8.6	28	20	8260B		10/8/2015	CJR	1
Chloromethane	< 38	ug/l	38	120	20	8260B		10/8/2015	CJR	1
2-Chlorotoluene	< 8	ug/l	8	26	20	8260B		10/8/2015	CJR	1
4-Chlorotoluene	< 12.6	ug/l	12.6	40	20	8260B		10/8/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 28	ug/l	28	90	20	8260B		10/8/2015	CJR	1
Dibromochloromethane	< 9	ug/l	9	28	20	8260B		10/8/2015	CJR	1
1,4-Dichlorobenzene	< 9.8	ug/l	9.8	32	20	8260B		10/8/2015	CJR	1
1,3-Dichlorobenzene	< 10.4	ug/l	10.4	32	20	8260B		10/8/2015	CJR	1
1,2-Dichlorobenzene	< 9.2	ug/l	9.2	30	20	8260B		10/8/2015	CJR	1
Dichlorodifluoromethane	< 17.4	ug/l	17.4	56	20	8260B		10/8/2015	CJR	1
1,2-Dichloroethane	< 9.6	ug/l	9.6	30	20	8260B		10/8/2015	CJR	1
1,1-Dichloroethane	< 22	ug/l	22	72	20	8260B		10/8/2015	CJR	1
1,1-Dichloroethene	< 13	ug/l	13	42	20	8260B		10/8/2015	CJR	1
cis-1,2-Dichloroethene	1500	ug/l	9	28	20	8260B		10/8/2015	CJR	1
trans-1,2-Dichloroethene	< 10.8	ug/l	10.8	34	20	8260B		10/8/2015	CJR	1
1,2-Dichloropropane	< 8.6	ug/l	8.6	27.4	20	8260B		10/8/2015	CJR	1
2,2-Dichloropropane	< 62	ug/l	62	196	20	8260B		10/8/2015	CJR	1
1,3-Dichloropropane	< 8.4	ug/l	8.4	26	20	8260B		10/8/2015	CJR	1
Di-isopropyl ether	< 8.8	ug/l	8.8	28	20	8260B		10/8/2015	CJR	1
EDB (1,2-Dibromoethane)	< 12.6	ug/l	12.6	40	20	8260B		10/8/2015	CJR	1
Ethylbenzene	< 14.2	ug/l	14.2	46	20	8260B		10/8/2015	CJR	1
Hexachlorobutadiene	< 44	ug/l	44	142	20	8260B		10/8/2015	CJR	1
Isopropylbenzene	< 16.4	ug/l	16.4	52	20	8260B		10/8/2015	CJR	1
p-Isopropyltoluene	< 22	ug/l	22	70	20	8260B		10/8/2015	CJR	1
Methylene chloride	< 26	ug/l	26	84	20	8260B		10/8/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 22	ug/l	22	74	20	8260B		10/8/2015	CJR	1
Naphthalene	< 32	ug/l	32	104	20	8260B		10/8/2015	CJR	1
n-Propylbenzene	< 15.4	ug/l	15.4	48	20	8260B		10/8/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 10.4	ug/l	10.4	34	20	8260B		10/8/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 9.6	ug/l	9.6	30	20	8260B		10/8/2015	CJR	1
Tetrachloroethene	< 9.8	ug/l	9.8	30	20	8260B		10/8/2015	CJR	1
Toluene	< 8.8	ug/l	8.8	28	20	8260B		10/8/2015	CJR	1
1,2,4-Trichlorobenzene	< 34	ug/l	34	112	20	8260B		10/8/2015	CJR	1
1,2,3-Trichlorobenzene	< 54	ug/l	54	172	20	8260B		10/8/2015	CJR	1
1,1,1-Trichloroethane	< 16.8	ug/l	16.8	54	20	8260B		10/8/2015	CJR	1
1,1,2-Trichloroethane	< 9.6	ug/l	9.6	30.4	20	8260B		10/8/2015	CJR	1
Trichloroethene (TCE)	< 9.4	ug/l	9.4	30	20	8260B		10/8/2015	CJR	1
Trichlorofluoromethane	< 17.4	ug/l	17.4	56	20	8260B		10/8/2015	CJR	1
1,2,4-Trimethylbenzene	< 32	ug/l	32	100	20	8260B		10/8/2015	CJR	1
1,3,5-Trimethylbenzene	< 30	ug/l	30	96	20	8260B		10/8/2015	CJR	1
Vinyl Chloride	460	ug/l	3.4	10.8	20	8260B		10/8/2015	CJR	1
m&p-Xylene	< 44	ug/l	44	138	20	8260B		10/8/2015	CJR	1
o-Xylene	< 18	ug/l	18	58	20	8260B		10/8/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	112	REC %				8260B		10/8/2015	CJR	1
SUR - Toluene-d8	85	REC %				8260B		10/8/2015	CJR	1
SUR - Dibromofluoromethane	112	REC %				8260B		10/8/2015	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %				8260B		10/8/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 50297950
 Sample ID MPS-P-5
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 4.4	ug/l	4.4	14	10	8260B		10/8/2015	CJR	1
Bromobenzene	< 4.8	ug/l	4.8	15	10	8260B		10/8/2015	CJR	1
Bromodichloromethane	< 4.6	ug/l	4.6	15	10	8260B		10/8/2015	CJR	1
Bromoform	< 4.6	ug/l	4.6	15	10	8260B		10/8/2015	CJR	1
tert-Butylbenzene	< 11	ug/l	11	34	10	8260B		10/8/2015	CJR	1
sec-Butylbenzene	< 12	ug/l	12	38	10	8260B		10/8/2015	CJR	1
n-Butylbenzene	< 10	ug/l	10	33	10	8260B		10/8/2015	CJR	1
Carbon Tetrachloride	< 5.1	ug/l	5.1	16	10	8260B		10/8/2015	CJR	1
Chlorobenzene	< 4.6	ug/l	4.6	14	10	8260B		10/8/2015	CJR	1
Chloroethane	< 6.5	ug/l	6.5	21	10	8260B		10/8/2015	CJR	1
Chloroform	< 4.3	ug/l	4.3	14	10	8260B		10/8/2015	CJR	1
Chloromethane	< 19	ug/l	19	60	10	8260B		10/8/2015	CJR	1
2-Chlorotoluene	< 4	ug/l	4	13	10	8260B		10/8/2015	CJR	1
4-Chlorotoluene	< 6.3	ug/l	6.3	20	10	8260B		10/8/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 14	ug/l	14	45	10	8260B		10/8/2015	CJR	1
Dibromochloromethane	< 4.5	ug/l	4.5	14	10	8260B		10/8/2015	CJR	1
1,4-Dichlorobenzene	< 4.9	ug/l	4.9	16	10	8260B		10/8/2015	CJR	1
1,3-Dichlorobenzene	< 5.2	ug/l	5.2	16	10	8260B		10/8/2015	CJR	1
1,2-Dichlorobenzene	< 4.6	ug/l	4.6	15	10	8260B		10/8/2015	CJR	1
Dichlorodifluoromethane	< 8.7	ug/l	8.7	28	10	8260B		10/8/2015	CJR	1
1,2-Dichloroethane	< 4.8	ug/l	4.8	15	10	8260B		10/8/2015	CJR	1
1,1-Dichloroethane	< 11	ug/l	11	36	10	8260B		10/8/2015	CJR	1
1,1-Dichloroethene	< 6.5	ug/l	6.5	21	10	8260B		10/8/2015	CJR	1
cis-1,2-Dichloroethene	82	ug/l	4.5	14	10	8260B		10/8/2015	CJR	1
trans-1,2-Dichloroethene	< 5.4	ug/l	5.4	17	10	8260B		10/8/2015	CJR	1
1,2-Dichloropropane	< 4.3	ug/l	4.3	13.7	10	8260B		10/8/2015	CJR	1
2,2-Dichloropropane	< 31	ug/l	31	98	10	8260B		10/8/2015	CJR	1
1,3-Dichloropropane	< 4.2	ug/l	4.2	13	10	8260B		10/8/2015	CJR	1
Di-isopropyl ether	< 4.4	ug/l	4.4	14	10	8260B		10/8/2015	CJR	1
EDB (1,2-Dibromoethane)	< 6.3	ug/l	6.3	20	10	8260B		10/8/2015	CJR	1
Ethylbenzene	< 7.1	ug/l	7.1	23	10	8260B		10/8/2015	CJR	1
Hexachlorobutadiene	< 22	ug/l	22	71	10	8260B		10/8/2015	CJR	1
Isopropylbenzene	< 8.2	ug/l	8.2	26	10	8260B		10/8/2015	CJR	1
p-Isopropyltoluene	< 11	ug/l	11	35	10	8260B		10/8/2015	CJR	1
Methylene chloride	< 13	ug/l	13	42	10	8260B		10/8/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 11	ug/l	11	37	10	8260B		10/8/2015	CJR	1
Naphthalene	< 16	ug/l	16	52	10	8260B		10/8/2015	CJR	1
n-Propylbenzene	< 7.7	ug/l	7.7	24	10	8260B		10/8/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 5.2	ug/l	5.2	17	10	8260B		10/8/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 4.8	ug/l	4.8	15	10	8260B		10/8/2015	CJR	1
Tetrachloroethene	< 4.9	ug/l	4.9	15	10	8260B		10/8/2015	CJR	1
Toluene	< 4.4	ug/l	4.4	14	10	8260B		10/8/2015	CJR	1
1,2,4-Trichlorobenzene	< 17	ug/l	17	56	10	8260B		10/8/2015	CJR	1
1,2,3-Trichlorobenzene	< 27	ug/l	27	86	10	8260B		10/8/2015	CJR	1
1,1,1-Trichloroethane	< 8.4	ug/l	8.4	27	10	8260B		10/8/2015	CJR	1
1,1,2-Trichloroethane	< 4.8	ug/l	4.8	15.2	10	8260B		10/8/2015	CJR	1
Trichloroethene (TCE)	< 4.7	ug/l	4.7	15	10	8260B		10/8/2015	CJR	1
Trichlorofluoromethane	< 8.7	ug/l	8.7	28	10	8260B		10/8/2015	CJR	1
1,2,4-Trimethylbenzene	< 16	ug/l	16	50	10	8260B		10/8/2015	CJR	1
1,3,5-Trimethylbenzene	< 15	ug/l	15	48	10	8260B		10/8/2015	CJR	1
Vinyl Chloride	88	ug/l	1.7	5.4	10	8260B		10/8/2015	CJR	1
m&p-Xylene	< 22	ug/l	22	69	10	8260B		10/8/2015	CJR	1
o-Xylene	< 9	ug/l	9	29	10	8260B		10/8/2015	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %				8260B		10/8/2015	CJR	1
SUR - Dibromofluoromethane	107	REC %				8260B		10/8/2015	CJR	1
SUR - Toluene-d8	90	REC %				8260B		10/8/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	108	REC %				8260B		10/8/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795P
 Sample ID MPS-P-6
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 4.4	ug/l	4.4	14	10	8260B		10/8/2015	CJR	1
Bromobenzene	< 4.8	ug/l	4.8	15	10	8260B		10/8/2015	CJR	1
Bromodichloromethane	< 4.6	ug/l	4.6	15	10	8260B		10/8/2015	CJR	1
Bromoform	< 4.6	ug/l	4.6	15	10	8260B		10/8/2015	CJR	1
tert-Butylbenzene	< 11	ug/l	11	34	10	8260B		10/8/2015	CJR	1
sec-Butylbenzene	< 12	ug/l	12	38	10	8260B		10/8/2015	CJR	1
n-Butylbenzene	< 10	ug/l	10	33	10	8260B		10/8/2015	CJR	1
Carbon Tetrachloride	< 5.1	ug/l	5.1	16	10	8260B		10/8/2015	CJR	1
Chlorobenzene	< 4.6	ug/l	4.6	14	10	8260B		10/8/2015	CJR	1
Chloroethane	< 6.5	ug/l	6.5	21	10	8260B		10/8/2015	CJR	1
Chloroform	< 4.3	ug/l	4.3	14	10	8260B		10/8/2015	CJR	1
Chloromethane	< 19	ug/l	19	60	10	8260B		10/8/2015	CJR	1
2-Chlorotoluene	< 4	ug/l	4	13	10	8260B		10/8/2015	CJR	1
4-Chlorotoluene	< 6.3	ug/l	6.3	20	10	8260B		10/8/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 14	ug/l	14	45	10	8260B		10/8/2015	CJR	1
Dibromochloromethane	< 4.5	ug/l	4.5	14	10	8260B		10/8/2015	CJR	1
1,4-Dichlorobenzene	< 4.9	ug/l	4.9	16	10	8260B		10/8/2015	CJR	1
1,3-Dichlorobenzene	< 5.2	ug/l	5.2	16	10	8260B		10/8/2015	CJR	1
1,2-Dichlorobenzene	< 4.6	ug/l	4.6	15	10	8260B		10/8/2015	CJR	1
Dichlorodifluoromethane	< 8.7	ug/l	8.7	28	10	8260B		10/8/2015	CJR	1
1,2-Dichloroethane	< 4.8	ug/l	4.8	15	10	8260B		10/8/2015	CJR	1
1,1-Dichloroethane	< 11	ug/l	11	36	10	8260B		10/8/2015	CJR	1
1,1-Dichloroethene	< 6.5	ug/l	6.5	21	10	8260B		10/8/2015	CJR	1
cis-1,2-Dichloroethene	640	ug/l	4.5	14	10	8260B		10/8/2015	CJR	1
trans-1,2-Dichloroethene	< 5.4	ug/l	5.4	17	10	8260B		10/8/2015	CJR	1
1,2-Dichloropropane	< 4.3	ug/l	4.3	13.7	10	8260B		10/8/2015	CJR	1
2,2-Dichloropropane	< 31	ug/l	31	98	10	8260B		10/8/2015	CJR	1
1,3-Dichloropropane	< 4.2	ug/l	4.2	13	10	8260B		10/8/2015	CJR	1
Di-isopropyl ether	< 4.4	ug/l	4.4	14	10	8260B		10/8/2015	CJR	1
EDB (1,2-Dibromoethane)	< 6.3	ug/l	6.3	20	10	8260B		10/8/2015	CJR	1
Ethylbenzene	< 7.1	ug/l	7.1	23	10	8260B		10/8/2015	CJR	1
Hexachlorobutadiene	< 22	ug/l	22	71	10	8260B		10/8/2015	CJR	1
Isopropylbenzene	< 8.2	ug/l	8.2	26	10	8260B		10/8/2015	CJR	1
p-Isopropyltoluene	< 11	ug/l	11	35	10	8260B		10/8/2015	CJR	1
Methylene chloride	< 13	ug/l	13	42	10	8260B		10/8/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 11	ug/l	11	37	10	8260B		10/8/2015	CJR	1
Naphthalene	< 16	ug/l	16	52	10	8260B		10/8/2015	CJR	1
n-Propylbenzene	< 7.7	ug/l	7.7	24	10	8260B		10/8/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 5.2	ug/l	5.2	17	10	8260B		10/8/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 4.8	ug/l	4.8	15	10	8260B		10/8/2015	CJR	1
Tetrachloroethene	< 4.9	ug/l	4.9	15	10	8260B		10/8/2015	CJR	1
Toluene	< 4.4	ug/l	4.4	14	10	8260B		10/8/2015	CJR	1
1,2,4-Trichlorobenzene	< 17	ug/l	17	56	10	8260B		10/8/2015	CJR	1
1,2,3-Trichlorobenzene	< 27	ug/l	27	86	10	8260B		10/8/2015	CJR	1
1,1,1-Trichloroethane	< 8.4	ug/l	8.4	27	10	8260B		10/8/2015	CJR	1
1,1,2-Trichloroethane	< 4.8	ug/l	4.8	15.2	10	8260B		10/8/2015	CJR	1
Trichloroethene (TCE)	< 4.7	ug/l	4.7	15	10	8260B		10/8/2015	CJR	1
Trichlorofluoromethane	< 8.7	ug/l	8.7	28	10	8260B		10/8/2015	CJR	1
1,2,4-Trimethylbenzene	< 16	ug/l	16	50	10	8260B		10/8/2015	CJR	1
1,3,5-Trimethylbenzene	< 15	ug/l	15	48	10	8260B		10/8/2015	CJR	1
Vinyl Chloride	410	ug/l	1.7	5.4	10	8260B		10/8/2015	CJR	1
m&p-Xylene	< 22	ug/l	22	69	10	8260B		10/8/2015	CJR	1
o-Xylene	< 9	ug/l	9	29	10	8260B		10/8/2015	CJR	1
SUR - Dibromofluoromethane	107	REC %				8260B		10/8/2015	CJR	1
SUR - Toluene-d8	90	REC %				8260B		10/8/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	112	REC %				8260B		10/8/2015	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %				8260B		10/8/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795Q
 Sample ID MPS-P-7
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 4.4	ug/l	4.4	14	10	8260B		10/8/2015	CJR	1
Bromobenzene	< 4.8	ug/l	4.8	15	10	8260B		10/8/2015	CJR	1
Bromodichloromethane	< 4.6	ug/l	4.6	15	10	8260B		10/8/2015	CJR	1
Bromoform	< 4.6	ug/l	4.6	15	10	8260B		10/8/2015	CJR	1
tert-Butylbenzene	< 11	ug/l	11	34	10	8260B		10/8/2015	CJR	1
sec-Butylbenzene	< 12	ug/l	12	38	10	8260B		10/8/2015	CJR	1
n-Butylbenzene	< 10	ug/l	10	33	10	8260B		10/8/2015	CJR	1
Carbon Tetrachloride	< 5.1	ug/l	5.1	16	10	8260B		10/8/2015	CJR	1
Chlorobenzene	< 4.6	ug/l	4.6	14	10	8260B		10/8/2015	CJR	1
Chloroethane	< 6.5	ug/l	6.5	21	10	8260B		10/8/2015	CJR	1
Chloroform	< 4.3	ug/l	4.3	14	10	8260B		10/8/2015	CJR	1
Chloromethane	< 19	ug/l	19	60	10	8260B		10/8/2015	CJR	1
2-Chlorotoluene	< 4	ug/l	4	13	10	8260B		10/8/2015	CJR	1
4-Chlorotoluene	< 6.3	ug/l	6.3	20	10	8260B		10/8/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 14	ug/l	14	45	10	8260B		10/8/2015	CJR	1
Dibromochloromethane	< 4.5	ug/l	4.5	14	10	8260B		10/8/2015	CJR	1
1,4-Dichlorobenzene	< 4.9	ug/l	4.9	16	10	8260B		10/8/2015	CJR	1
1,3-Dichlorobenzene	< 5.2	ug/l	5.2	16	10	8260B		10/8/2015	CJR	1
1,2-Dichlorobenzene	< 4.6	ug/l	4.6	15	10	8260B		10/8/2015	CJR	1
Dichlorodifluoromethane	< 8.7	ug/l	8.7	28	10	8260B		10/8/2015	CJR	1
1,2-Dichloroethane	< 4.8	ug/l	4.8	15	10	8260B		10/8/2015	CJR	1
1,1-Dichloroethane	< 11	ug/l	11	36	10	8260B		10/8/2015	CJR	1
1,1-Dichloroethene	< 6.5	ug/l	6.5	21	10	8260B		10/8/2015	CJR	1
cis-1,2-Dichloroethene	24.8	ug/l	4.5	14	10	8260B		10/8/2015	CJR	1
trans-1,2-Dichloroethene	< 5.4	ug/l	5.4	17	10	8260B		10/8/2015	CJR	1
1,2-Dichloropropane	< 4.3	ug/l	4.3	13.7	10	8260B		10/8/2015	CJR	1
2,2-Dichloropropane	< 31	ug/l	31	98	10	8260B		10/8/2015	CJR	1
1,3-Dichloropropane	< 4.2	ug/l	4.2	13	10	8260B		10/8/2015	CJR	1
Di-isopropyl ether	< 4.4	ug/l	4.4	14	10	8260B		10/8/2015	CJR	1
EDB (1,2-Dibromoethane)	< 6.3	ug/l	6.3	20	10	8260B		10/8/2015	CJR	1
Ethylbenzene	< 7.1	ug/l	7.1	23	10	8260B		10/8/2015	CJR	1
Hexachlorobutadiene	< 22	ug/l	22	71	10	8260B		10/8/2015	CJR	1
Isopropylbenzene	< 8.2	ug/l	8.2	26	10	8260B		10/8/2015	CJR	1
p-Isopropyltoluene	< 11	ug/l	11	35	10	8260B		10/8/2015	CJR	1
Methylene chloride	< 13	ug/l	13	42	10	8260B		10/8/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 11	ug/l	11	37	10	8260B		10/8/2015	CJR	1
Naphthalene	< 16	ug/l	16	52	10	8260B		10/8/2015	CJR	1
n-Propylbenzene	< 7.7	ug/l	7.7	24	10	8260B		10/8/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 5.2	ug/l	5.2	17	10	8260B		10/8/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 4.8	ug/l	4.8	15	10	8260B		10/8/2015	CJR	1
Tetrachloroethene	< 4.9	ug/l	4.9	15	10	8260B		10/8/2015	CJR	1
Toluene	< 4.4	ug/l	4.4	14	10	8260B		10/8/2015	CJR	1
1,2,4-Trichlorobenzene	< 17	ug/l	17	56	10	8260B		10/8/2015	CJR	1
1,2,3-Trichlorobenzene	< 27	ug/l	27	86	10	8260B		10/8/2015	CJR	1
1,1,1-Trichloroethane	< 8.4	ug/l	8.4	27	10	8260B		10/8/2015	CJR	1
1,1,2-Trichloroethane	< 4.8	ug/l	4.8	15.2	10	8260B		10/8/2015	CJR	1
Trichloroethene (TCE)	< 4.7	ug/l	4.7	15	10	8260B		10/8/2015	CJR	1
Trichlorofluoromethane	< 8.7	ug/l	8.7	28	10	8260B		10/8/2015	CJR	1
1,2,4-Trimethylbenzene	< 16	ug/l	16	50	10	8260B		10/8/2015	CJR	1
1,3,5-Trimethylbenzene	< 15	ug/l	15	48	10	8260B		10/8/2015	CJR	1
Vinyl Chloride	380	ug/l	1.7	5.4	10	8260B		10/8/2015	CJR	1
m&p-Xylene	< 22	ug/l	22	69	10	8260B		10/8/2015	CJR	1
o-Xylene	< 9	ug/l	9	29	10	8260B		10/8/2015	CJR	1
SUR - Toluene-d8	88	REC %				8260B		10/8/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	111	REC %				8260B		10/8/2015	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %				8260B		10/8/2015	CJR	1
SUR - Dibromofluoromethane	107	REC %				8260B		10/8/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795R
 Sample ID MW-11
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		10/7/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		10/7/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		10/7/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		10/7/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		10/7/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		10/7/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		10/7/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		10/7/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		10/7/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		10/7/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		10/7/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		10/7/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		10/7/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		10/7/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		10/7/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		10/7/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		10/7/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		10/7/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		10/7/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/7/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/7/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		10/7/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		10/7/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		10/7/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		10/7/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		10/7/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		10/7/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		10/7/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		10/7/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		10/7/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		10/7/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		10/7/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		10/7/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		10/7/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		10/7/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		10/7/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		10/7/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		10/7/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		10/7/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/7/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		10/7/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		10/7/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		10/7/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		10/7/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		10/7/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		10/7/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		10/7/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/7/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		10/7/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		10/7/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		10/7/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		10/7/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		10/7/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/7/2015	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		10/7/2015	CJR	1
SUR - Dibromofluoromethane	108	REC %			1	8260B		10/7/2015	CJR	1
SUR - Toluene-d8	87	REC %			1	8260B		10/7/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795S
 Sample ID PZ-11
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		10/7/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		10/7/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		10/7/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		10/7/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		10/7/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		10/7/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		10/7/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		10/7/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		10/7/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		10/7/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		10/7/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		10/7/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		10/7/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		10/7/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		10/7/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		10/7/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		10/7/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		10/7/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		10/7/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/7/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/7/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		10/7/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		10/7/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		10/7/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		10/7/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		10/7/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		10/7/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		10/7/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		10/7/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		10/7/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		10/7/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		10/7/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		10/7/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		10/7/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		10/7/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		10/7/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		10/7/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		10/7/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		10/7/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/7/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		10/7/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		10/7/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		10/7/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		10/7/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		10/7/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		10/7/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		10/7/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/7/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		10/7/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		10/7/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		10/7/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		10/7/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		10/7/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	113	REC %			1	8260B		10/7/2015	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/7/2015	CJR	1
SUR - Dibromofluoromethane	108	REC %			1	8260B		10/7/2015	CJR	1
SUR - Toluene-d8	92	REC %			1	8260B		10/7/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795T
 Sample ID DUP #1
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 22	ug/l	22	70	50	8260B		10/8/2015	CJR	1
Bromobenzene	< 24	ug/l	24	75	50	8260B		10/8/2015	CJR	1
Bromodichloromethane	< 23	ug/l	23	75	50	8260B		10/8/2015	CJR	1
Bromoform	< 23	ug/l	23	75	50	8260B		10/8/2015	CJR	1
tert-Butylbenzene	< 55	ug/l	55	170	50	8260B		10/8/2015	CJR	1
sec-Butylbenzene	< 60	ug/l	60	190	50	8260B		10/8/2015	CJR	1
n-Butylbenzene	< 50	ug/l	50	165	50	8260B		10/8/2015	CJR	1
Carbon Tetrachloride	< 25.5	ug/l	25.5	80	50	8260B		10/8/2015	CJR	1
Chlorobenzene	< 23	ug/l	23	70	50	8260B		10/8/2015	CJR	1
Chloroethane	< 32.5	ug/l	32.5	105	50	8260B		10/8/2015	CJR	1
Chloroform	< 21.5	ug/l	21.5	70	50	8260B		10/8/2015	CJR	1
Chloromethane	< 95	ug/l	95	300	50	8260B		10/8/2015	CJR	1
2-Chlorotoluene	< 20	ug/l	20	65	50	8260B		10/8/2015	CJR	1
4-Chlorotoluene	< 31.5	ug/l	31.5	100	50	8260B		10/8/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 70	ug/l	70	225	50	8260B		10/8/2015	CJR	1
Dibromochloromethane	< 22.5	ug/l	22.5	70	50	8260B		10/8/2015	CJR	1
1,4-Dichlorobenzene	< 24.5	ug/l	24.5	80	50	8260B		10/8/2015	CJR	1
1,3-Dichlorobenzene	< 26	ug/l	26	80	50	8260B		10/8/2015	CJR	1
1,2-Dichlorobenzene	< 23	ug/l	23	75	50	8260B		10/8/2015	CJR	1
Dichlorodifluoromethane	< 43.5	ug/l	43.5	140	50	8260B		10/8/2015	CJR	1
1,2-Dichloroethane	< 24	ug/l	24	75	50	8260B		10/8/2015	CJR	1
1,1-Dichloroethane	< 55	ug/l	55	180	50	8260B		10/8/2015	CJR	1
1,1-Dichloroethene	< 32.5	ug/l	32.5	105	50	8260B		10/8/2015	CJR	1
cis-1,2-Dichloroethene	84	ug/l	22.5	70	50	8260B		10/8/2015	CJR	1
trans-1,2-Dichloroethene	< 27	ug/l	27	85	50	8260B		10/8/2015	CJR	1
1,2-Dichloropropane	< 21.5	ug/l	21.5	68.5	50	8260B		10/8/2015	CJR	1
2,2-Dichloropropane	< 155	ug/l	155	490	50	8260B		10/8/2015	CJR	1
1,3-Dichloropropane	< 21	ug/l	21	65	50	8260B		10/8/2015	CJR	1
Di-isopropyl ether	< 22	ug/l	22	70	50	8260B		10/8/2015	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		10/8/2015	CJR	1
Ethylbenzene	< 35.5	ug/l	35.5	115	50	8260B		10/8/2015	CJR	1
Hexachlorobutadiene	< 110	ug/l	110	355	50	8260B		10/8/2015	CJR	1
Isopropylbenzene	< 41	ug/l	41	130	50	8260B		10/8/2015	CJR	1
p-Isopropyltoluene	< 55	ug/l	55	175	50	8260B		10/8/2015	CJR	1
Methylene chloride	< 65	ug/l	65	210	50	8260B		10/8/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 55	ug/l	55	185	50	8260B		10/8/2015	CJR	1
Naphthalene	< 80	ug/l	80	260	50	8260B		10/8/2015	CJR	1
n-Propylbenzene	< 38.5	ug/l	38.5	120	50	8260B		10/8/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 26	ug/l	26	85	50	8260B		10/8/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 24	ug/l	24	75	50	8260B		10/8/2015	CJR	1
Tetrachloroethene	< 24.5	ug/l	24.5	75	50	8260B		10/8/2015	CJR	1
Toluene	< 22	ug/l	22	70	50	8260B		10/8/2015	CJR	1
1,2,4-Trichlorobenzene	< 85	ug/l	85	280	50	8260B		10/8/2015	CJR	1
1,2,3-Trichlorobenzene	< 135	ug/l	135	430	50	8260B		10/8/2015	CJR	1
1,1,1-Trichloroethane	< 42	ug/l	42	135	50	8260B		10/8/2015	CJR	1
1,1,2-Trichloroethane	< 24	ug/l	24	76	50	8260B		10/8/2015	CJR	1
Trichloroethene (TCE)	< 23.5	ug/l	23.5	75	50	8260B		10/8/2015	CJR	1
Trichlorofluoromethane	< 43.5	ug/l	43.5	140	50	8260B		10/8/2015	CJR	1
1,2,4-Trimethylbenzene	< 80	ug/l	80	250	50	8260B		10/8/2015	CJR	1
1,3,5-Trimethylbenzene	< 75	ug/l	75	240	50	8260B		10/8/2015	CJR	1
Vinyl Chloride	100	ug/l	8.5	27	50	8260B		10/8/2015	CJR	1
m&p-Xylene	< 110	ug/l	110	345	50	8260B		10/8/2015	CJR	1
o-Xylene	< 45	ug/l	45	145	50	8260B		10/8/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %				8260B		10/8/2015	CJR	1
SUR - 4-Bromofluorobenzene	115	REC %				8260B		10/8/2015	CJR	1
SUR - Dibromofluoromethane	103	REC %				8260B		10/8/2015	CJR	1
SUR - Toluene-d8	110	REC %				8260B		10/8/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795U
 Sample ID DUP #2
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 22	ug/l	22	70	50	8260B		10/8/2015	CJR	1
Bromobenzene	< 24	ug/l	24	75	50	8260B		10/8/2015	CJR	1
Bromodichloromethane	< 23	ug/l	23	75	50	8260B		10/8/2015	CJR	1
Bromoform	< 23	ug/l	23	75	50	8260B		10/8/2015	CJR	1
tert-Butylbenzene	< 55	ug/l	55	170	50	8260B		10/8/2015	CJR	1
sec-Butylbenzene	< 60	ug/l	60	190	50	8260B		10/8/2015	CJR	1
n-Butylbenzene	< 50	ug/l	50	165	50	8260B		10/8/2015	CJR	1
Carbon Tetrachloride	< 25.5	ug/l	25.5	80	50	8260B		10/8/2015	CJR	1
Chlorobenzene	< 23	ug/l	23	70	50	8260B		10/8/2015	CJR	1
Chloroethane	< 32.5	ug/l	32.5	105	50	8260B		10/8/2015	CJR	1
Chloroform	< 21.5	ug/l	21.5	70	50	8260B		10/8/2015	CJR	1
Chloromethane	< 95	ug/l	95	300	50	8260B		10/8/2015	CJR	1
2-Chlorotoluene	< 20	ug/l	20	65	50	8260B		10/8/2015	CJR	1
4-Chlorotoluene	< 31.5	ug/l	31.5	100	50	8260B		10/8/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 70	ug/l	70	225	50	8260B		10/8/2015	CJR	1
Dibromochloromethane	< 22.5	ug/l	22.5	70	50	8260B		10/8/2015	CJR	1
1,4-Dichlorobenzene	< 24.5	ug/l	24.5	80	50	8260B		10/8/2015	CJR	1
1,3-Dichlorobenzene	< 26	ug/l	26	80	50	8260B		10/8/2015	CJR	1
1,2-Dichlorobenzene	< 23	ug/l	23	75	50	8260B		10/8/2015	CJR	1
Dichlorodifluoromethane	< 43.5	ug/l	43.5	140	50	8260B		10/8/2015	CJR	1
1,2-Dichloroethane	< 24	ug/l	24	75	50	8260B		10/8/2015	CJR	1
1,1-Dichloroethane	< 55	ug/l	55	180	50	8260B		10/8/2015	CJR	1
1,1-Dichloroethene	< 32.5	ug/l	32.5	105	50	8260B		10/8/2015	CJR	1
cis-1,2-Dichloroethene	1590	ug/l	22.5	70	50	8260B		10/8/2015	CJR	1
trans-1,2-Dichloroethene	< 27	ug/l	27	85	50	8260B		10/8/2015	CJR	1
1,2-Dichloropropane	< 21.5	ug/l	21.5	68.5	50	8260B		10/8/2015	CJR	1
2,2-Dichloropropane	< 155	ug/l	155	490	50	8260B		10/8/2015	CJR	1
1,3-Dichloropropane	< 21	ug/l	21	65	50	8260B		10/8/2015	CJR	1
Di-isopropyl ether	< 22	ug/l	22	70	50	8260B		10/8/2015	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		10/8/2015	CJR	1
Ethylbenzene	< 35.5	ug/l	35.5	115	50	8260B		10/8/2015	CJR	1
Hexachlorobutadiene	< 110	ug/l	110	355	50	8260B		10/8/2015	CJR	1
Isopropylbenzene	< 41	ug/l	41	130	50	8260B		10/8/2015	CJR	1
p-Isopropyltoluene	< 55	ug/l	55	175	50	8260B		10/8/2015	CJR	1
Methylene chloride	< 65	ug/l	65	210	50	8260B		10/8/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 55	ug/l	55	185	50	8260B		10/8/2015	CJR	1
Naphthalene	< 80	ug/l	80	260	50	8260B		10/8/2015	CJR	1
n-Propylbenzene	< 38.5	ug/l	38.5	120	50	8260B		10/8/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 26	ug/l	26	85	50	8260B		10/8/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 24	ug/l	24	75	50	8260B		10/8/2015	CJR	1
Tetrachloroethene	< 24.5	ug/l	24.5	75	50	8260B		10/8/2015	CJR	1
Toluene	< 22	ug/l	22	70	50	8260B		10/8/2015	CJR	1
1,2,4-Trichlorobenzene	< 85	ug/l	85	280	50	8260B		10/8/2015	CJR	1
1,2,3-Trichlorobenzene	< 135	ug/l	135	430	50	8260B		10/8/2015	CJR	1
1,1,1-Trichloroethane	< 42	ug/l	42	135	50	8260B		10/8/2015	CJR	1
1,1,2-Trichloroethane	< 24	ug/l	24	76	50	8260B		10/8/2015	CJR	1
Trichloroethene (TCE)	< 23.5	ug/l	23.5	75	50	8260B		10/8/2015	CJR	1
Trichlorofluoromethane	< 43.5	ug/l	43.5	140	50	8260B		10/8/2015	CJR	1
1,2,4-Trimethylbenzene	< 80	ug/l	80	250	50	8260B		10/8/2015	CJR	1
1,3,5-Trimethylbenzene	< 75	ug/l	75	240	50	8260B		10/8/2015	CJR	1
Vinyl Chloride	740	ug/l	8.5	27	50	8260B		10/8/2015	CJR	1
m&p-Xylene	< 110	ug/l	110	345	50	8260B		10/8/2015	CJR	1
o-Xylene	< 45	ug/l	45	145	50	8260B		10/8/2015	CJR	1
SUR - Toluene-d8	106	REC %				8260B		10/8/2015	CJR	1
SUR - Dibromofluoromethane	106	REC %				8260B		10/8/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %				8260B		10/8/2015	CJR	1
SUR - 4-Bromofluorobenzene	116	REC %				8260B		10/8/2015	CJR	1

Project Name GOODHOPE RD. LANDFILL SITE
 Project # 14411

Invoice # E29795

Lab Code 5029795V
 Sample ID TRIP BLANK
 Sample Matrix Water
 Sample Date 9/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		10/7/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		10/7/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		10/7/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		10/7/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		10/7/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		10/7/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		10/7/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		10/7/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		10/7/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		10/7/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		10/7/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		10/7/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		10/7/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		10/7/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		10/7/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		10/7/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		10/7/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		10/7/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		10/7/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/7/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/7/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		10/7/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		10/7/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		10/7/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		10/7/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		10/7/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		10/7/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		10/7/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		10/7/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		10/7/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		10/7/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		10/7/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		10/7/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		10/7/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		10/7/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		10/7/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		10/7/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		10/7/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		10/7/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/7/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		10/7/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		10/7/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		10/7/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		10/7/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		10/7/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		10/7/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		10/7/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/7/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		10/7/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		10/7/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		10/7/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		10/7/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		10/7/2015	CJR	1
SUR - Toluene-d8	90	REC %			1	8260B		10/7/2015	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		10/7/2015	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		10/7/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	107	REC %			1	8260B		10/7/2015	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code ***Comment***

1 Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

A handwritten signature in blue ink, appearing to read "Michael J. ...", is written over a horizontal line.

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # _____
Account No. : _____ Quote No.: _____
Project #: **14411**
Sampler: (signature) *David Dailey*

Project (Name / Location): **Goodhope Rd. Landfill site**
Reports To: **Matizul Islam** Invoice To: _____
Company **Sigma** Company _____
Address **1300 W. Canal St.** Address _____
City State Zip **Milw. WI 53233** City State Zip _____
Phone **414-443-4200** Phone _____
FAX _____ FAX _____

Analysis Requested										Other Analysis				
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
												X		
												X		
												X		
												X		
												X		
												X		
												X		
												X		
												X		
												X		
												X		

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
5029795A	W-MW-55	7-29-15	10:50		G	NO	3	GW	HCL
B	MW-4		11:15						
C	W-MW-10		11:40						
D	PZ-C		12:00						
E	W-MW-11		12:30						
F	MW-20		2:00						
G	MW-25		3:00						
H	MW-D	9-30-15	8:30				31		
I	PZ-D		8:00						
J	MW-22		8:30						

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Rush
Temp. of Temp. Blank: _____ °C On Ice
Cooler seal intact upon receipt: Yes _____ No

Relinquished By: (sign) *David Dailey* Time 4:00 Date 9-30-15
Received By: (sign) _____ Time _____ Date _____
Received in Laboratory By: *Christy* Time: 8:00 Date: 10/2/15

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

MAFIZUL ISLAM
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE, WI 53233

Report Date 22-Dec-15

Project Name GOOD HOPE LANDFILL
Project # 14411

Invoice # E30245

Lab Code 5030245A
Sample ID MW-D
Sample Matrix Water
Sample Date 12/17/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 440	ug/l	440	1400	1000	8260B	12/21/2015	12/21/2015	CJR	1
Bromobenzene	< 480	ug/l	480	1500	1000	8260B	12/21/2015	12/21/2015	CJR	1
Bromodichloromethane	< 460	ug/l	460	1500	1000	8260B	12/21/2015	12/21/2015	CJR	1
Bromoform	< 460	ug/l	460	1500	1000	8260B	12/21/2015	12/21/2015	CJR	1
tert-Butylbenzene	< 1100	ug/l	1100	3400	1000	8260B	12/21/2015	12/21/2015	CJR	1
sec-Butylbenzene	< 1200	ug/l	1200	3800	1000	8260B	12/21/2015	12/21/2015	CJR	1
n-Butylbenzene	< 1000	ug/l	1000	3300	1000	8260B	12/21/2015	12/21/2015	CJR	1
Carbon Tetrachloride	< 510	ug/l	510	1600	1000	8260B	12/21/2015	12/21/2015	CJR	1
Chlorobenzene	< 460	ug/l	460	1400	1000	8260B	12/21/2015	12/21/2015	CJR	1
Chloroethane	< 650	ug/l	650	2100	1000	8260B	12/21/2015	12/21/2015	CJR	1
Chloroform	< 430	ug/l	430	1400	1000	8260B	12/21/2015	12/21/2015	CJR	1
Chloromethane	< 1900	ug/l	1900	6000	1000	8260B	12/21/2015	12/21/2015	CJR	1
2-Chlorotoluene	< 400	ug/l	400	1300	1000	8260B	12/21/2015	12/21/2015	CJR	1
4-Chlorotoluene	< 630	ug/l	630	2000	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1400	ug/l	1400	4500	1000	8260B	12/21/2015	12/21/2015	CJR	1
Dibromochloromethane	< 450	ug/l	450	1400	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,4-Dichlorobenzene	< 490	ug/l	490	1600	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,3-Dichlorobenzene	< 520	ug/l	520	1600	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,2-Dichlorobenzene	< 460	ug/l	460	1500	1000	8260B	12/21/2015	12/21/2015	CJR	1
Dichlorodifluoromethane	< 870	ug/l	870	2800	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,2-Dichloroethane	< 480	ug/l	480	1500	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,1-Dichloroethane	< 1100	ug/l	1100	3600	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,1-Dichloroethene	< 650	ug/l	650	2100	1000	8260B	12/21/2015	12/21/2015	CJR	1
cis-1,2-Dichloroethene	28900	ug/l	450	1400	1000	8260B	12/21/2015	12/21/2015	CJR	1
trans-1,2-Dichloroethene	< 540	ug/l	540	1700	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,2-Dichloropropane	< 430	ug/l	430	1370	1000	8260B	12/21/2015	12/21/2015	CJR	1
2,2-Dichloropropane	< 3100	ug/l	3100	9800	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,3-Dichloropropane	< 420	ug/l	420	1300	1000	8260B	12/21/2015	12/21/2015	CJR	1
Di-isopropyl ether	< 440	ug/l	440	1400	1000	8260B	12/21/2015	12/21/2015	CJR	1
EDB (1,2-Dibromoethane)	< 630	ug/l	630	2000	1000	8260B	12/21/2015	12/21/2015	CJR	1
Ethylbenzene	< 710	ug/l	710	2300	1000	8260B	12/21/2015	12/21/2015	CJR	1
Hexachlorobutadiene	< 2200	ug/l	2200	7100	1000	8260B	12/21/2015	12/21/2015	CJR	1
Isopropylbenzene	< 820	ug/l	820	2600	1000	8260B	12/21/2015	12/21/2015	CJR	1

Project Name GOOD HOPE LANDFILL
Project # 14411

Invoice # E30245

Lab Code 5030245A
Sample ID MW-D
Sample Matrix Water
Sample Date 12/17/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 1100	ug/l	1100	3500	1000	8260B	12/21/2015	12/21/2015	CJR	1
Methylene chloride	< 1300	ug/l	1300	4200	1000	8260B	12/21/2015	12/21/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1100	ug/l	1100	3700	1000	8260B	12/21/2015	12/21/2015	CJR	1
Naphthalene	< 1600	ug/l	1600	5200	1000	8260B	12/21/2015	12/21/2015	CJR	1
n-Propylbenzene	< 770	ug/l	770	2400	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 520	ug/l	520	1700	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 480	ug/l	480	1500	1000	8260B	12/21/2015	12/21/2015	CJR	1
Tetrachloroethane	1330 "J"	ug/l	490	1500	1000	8260B	12/21/2015	12/21/2015	CJR	1
Toluene	< 440	ug/l	440	1400	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,2,4-Trichlorobenzene	< 1700	ug/l	1700	5600	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,2,3-Trichlorobenzene	< 2700	ug/l	2700	8600	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,1,1-Trichloroethane	< 840	ug/l	840	2700	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,1,2-Trichloroethane	< 480	ug/l	480	1520	1000	8260B	12/21/2015	12/21/2015	CJR	1
Trichloroethene (TCE)	1640	ug/l	470	1500	1000	8260B	12/21/2015	12/21/2015	CJR	1
Trichlorofluoromethane	< 870	ug/l	870	2800	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,2,4-Trimethylbenzene	< 1600	ug/l	1600	5000	1000	8260B	12/21/2015	12/21/2015	CJR	1
1,3,5-Trimethylbenzene	< 1500	ug/l	1500	4800	1000	8260B	12/21/2015	12/21/2015	CJR	1
Vinyl Chloride	< 170	ug/l	170	540	1000	8260B	12/21/2015	12/21/2015	CJR	1
m&p-Xylene	< 2200	ug/l	2200	6900	1000	8260B	12/21/2015	12/21/2015	CJR	1
o-Xylene	< 900	ug/l	900	2900	1000	8260B	12/21/2015	12/21/2015	CJR	1
SUR - Toluene-d8	101	REC %				1000 8260B	12/21/2015	12/21/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %				1000 8260B	12/21/2015	12/21/2015	CJR	1
SUR - 4-Bromofluorobenzene	117	REC %				1000 8260B	12/21/2015	12/21/2015	CJR	1
SUR - Dibromofluoromethane	96	REC %				1000 8260B	12/21/2015	12/21/2015	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code ***Comment***

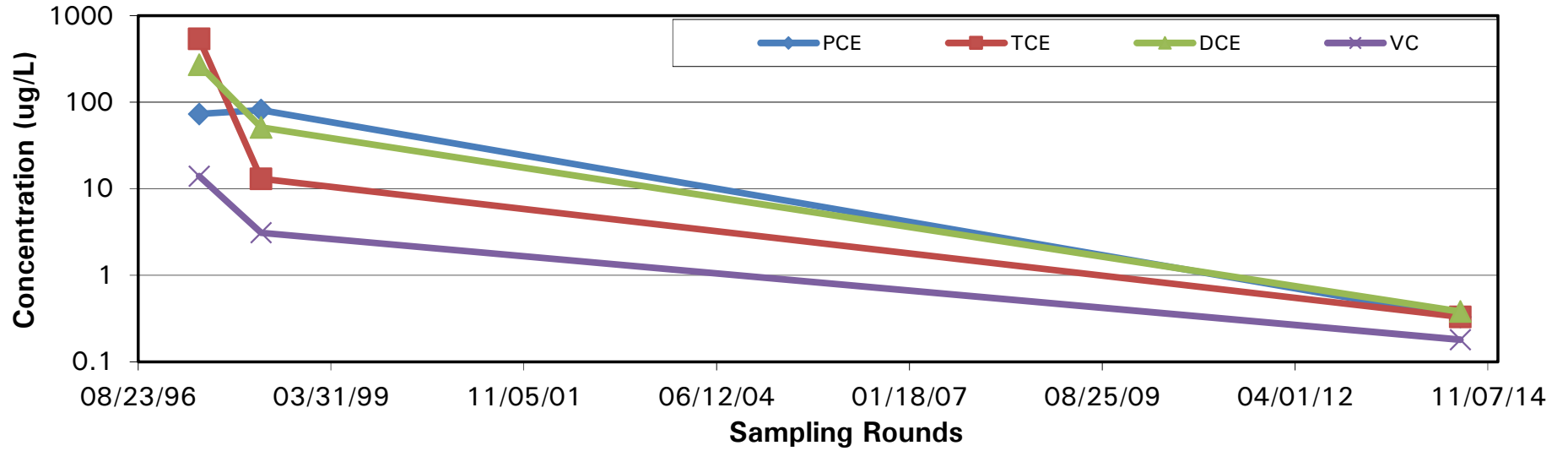
1 Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

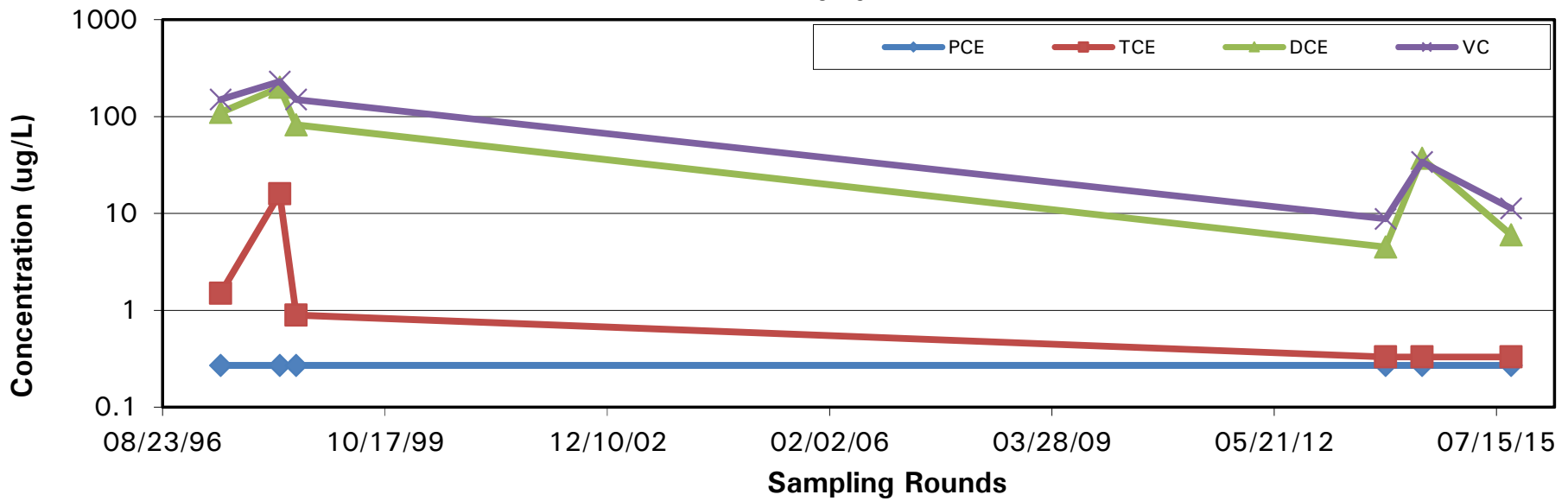
Authorized Signature

APPENDIX C
CONCENTRATION-TIME SERIES PLOTS
AND
GROUNDWATER PLUME DISTRIBUTION PLOTS

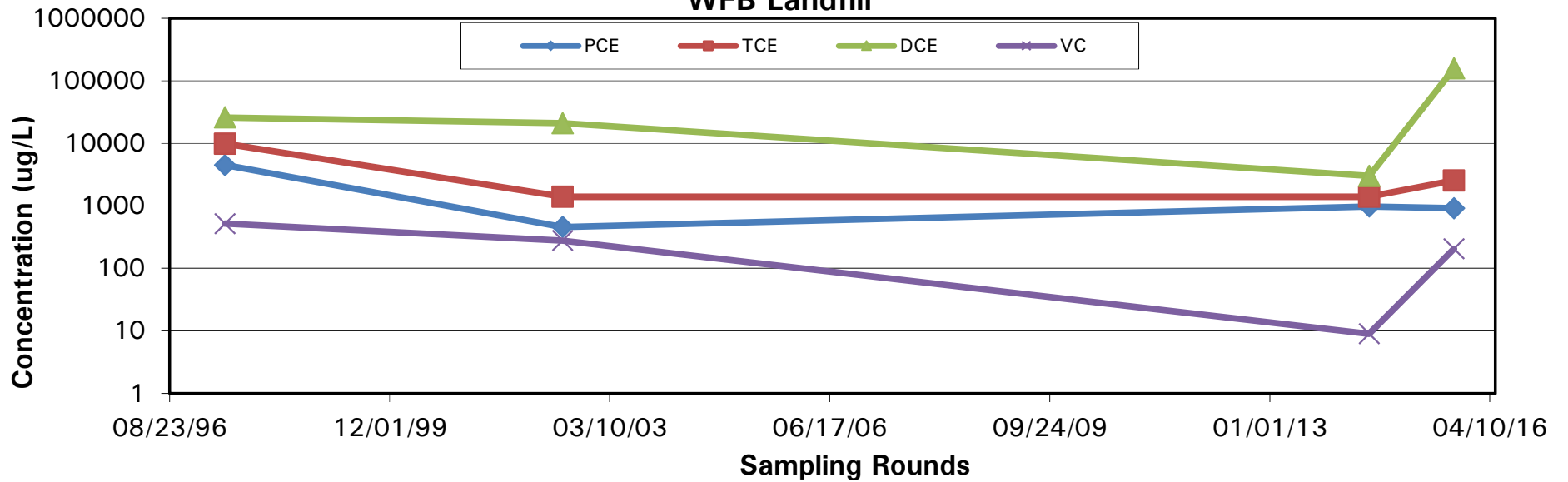
**MW-C
CVOC Concentration vs Time
WFB Landfill**



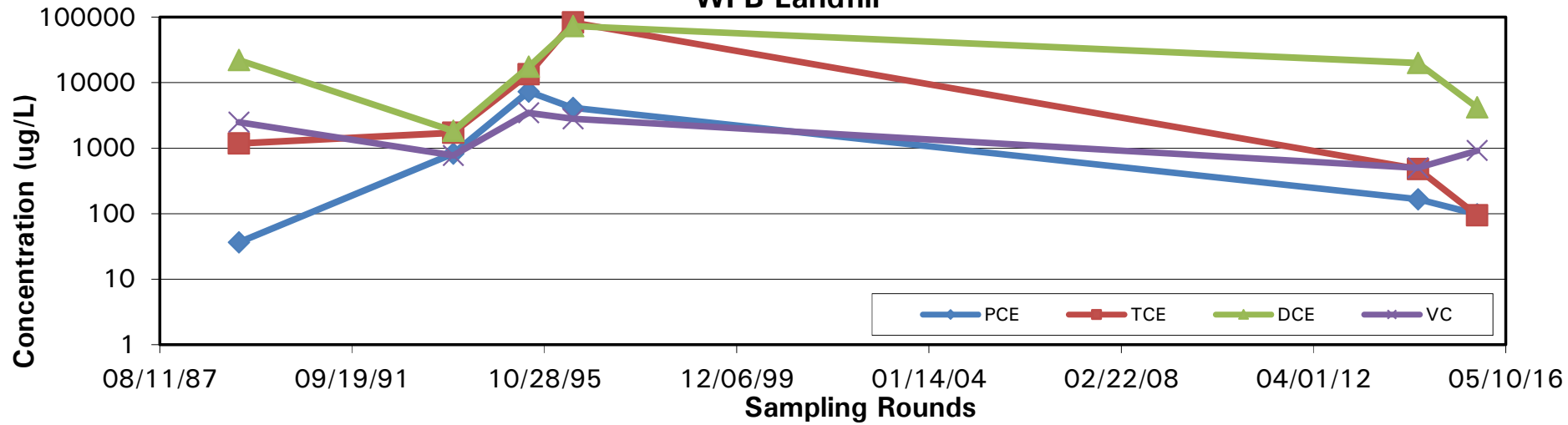
PZ-C
CVOC Concentration vs Time
WFB Landfill



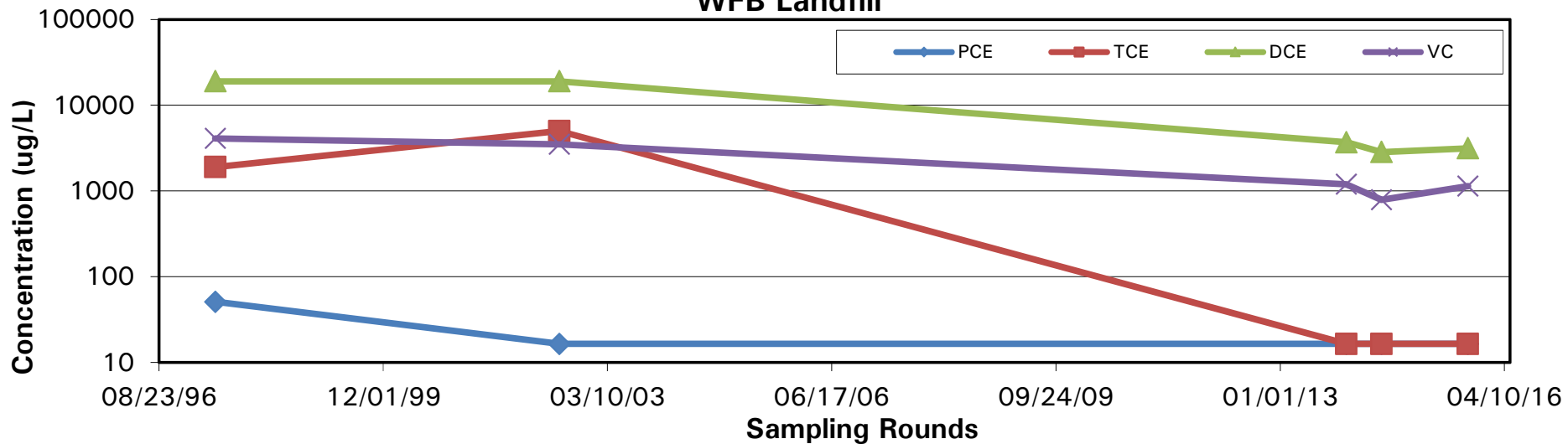
**MW-D
CVOC Concentration vs Time
WFB Landfill**



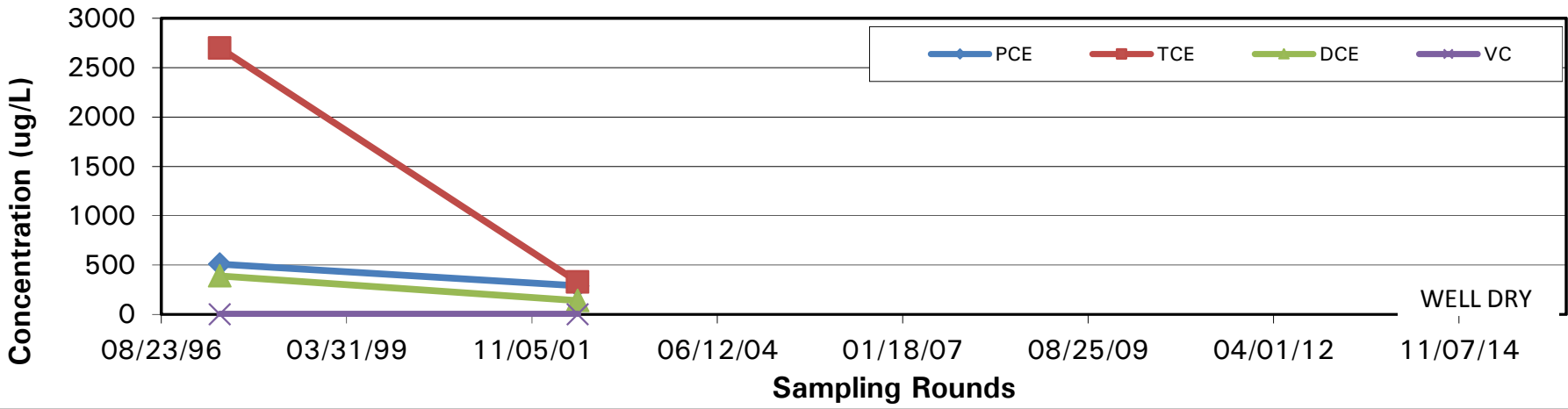
MW - 22
CVOC Concentration vs Time
WFB Landfill



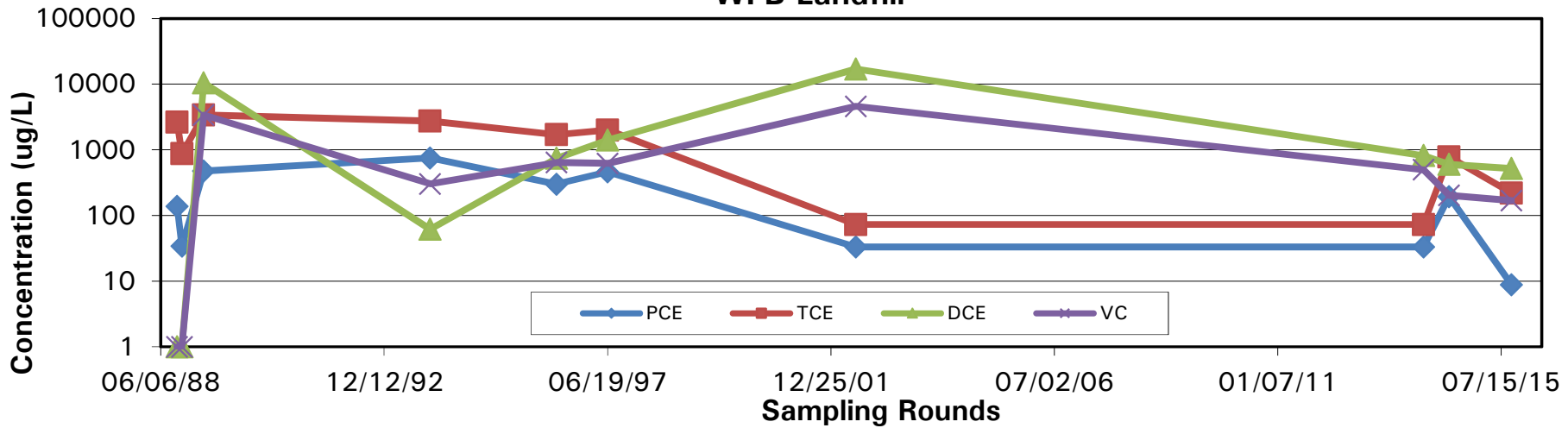
**PZ-D
CVOC Concentration vs Time
WFB Landfill**



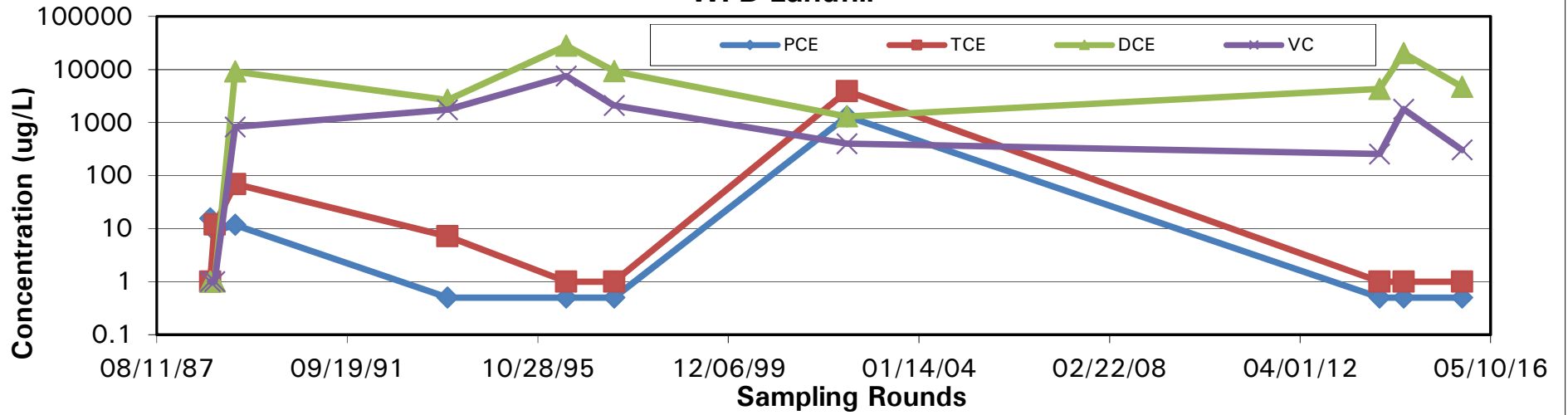
MW- E
CVOC Concentration vs Time
WFB Landfill



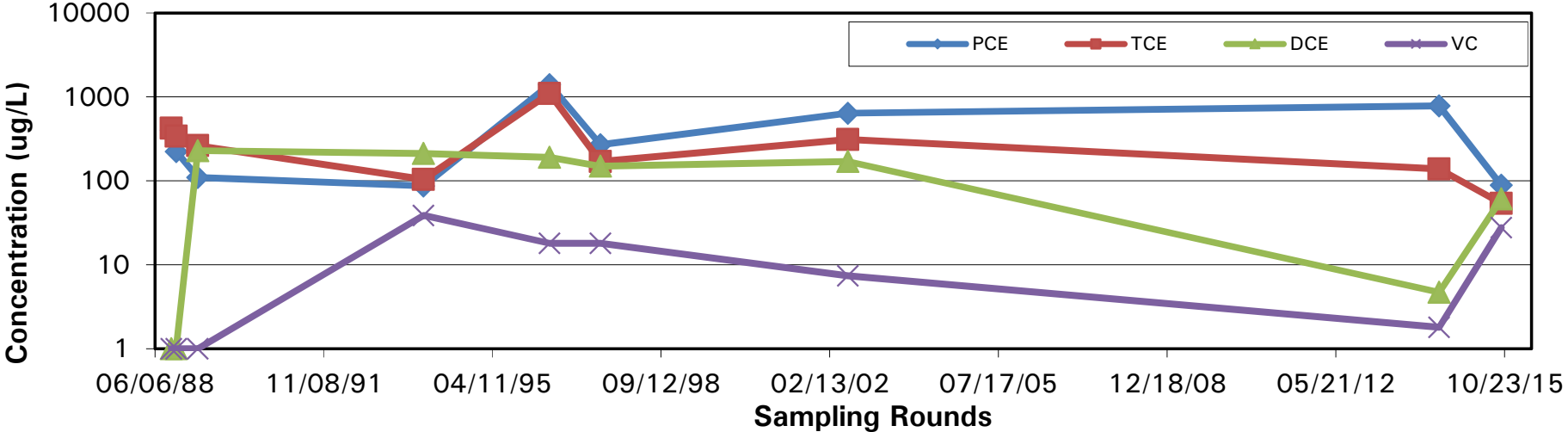
W - MW - 10
CVOC Concentration vs Time
WFB Landfill



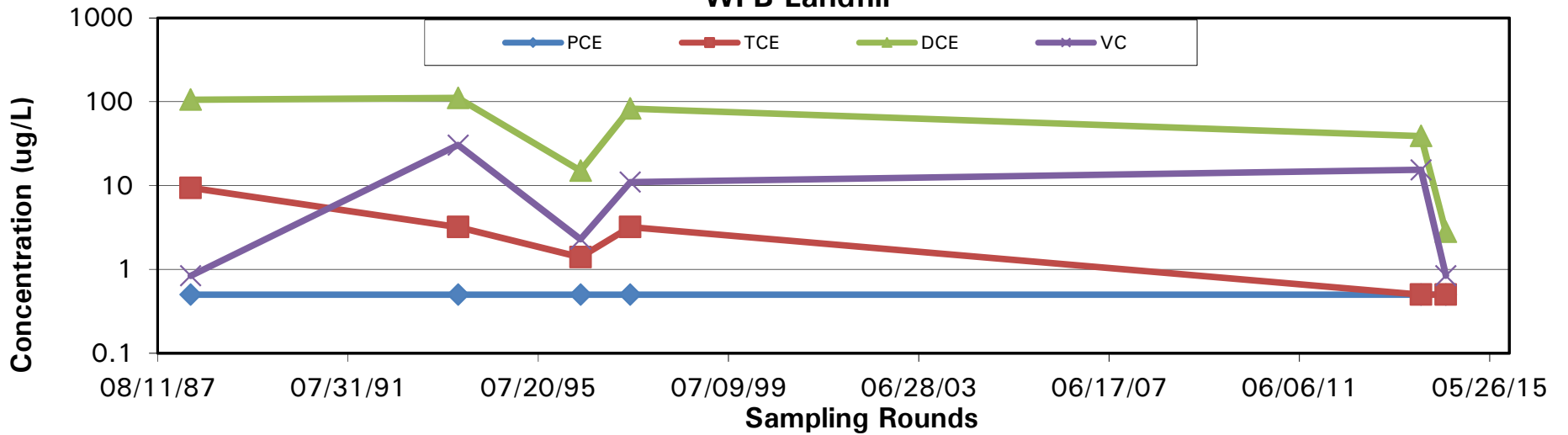
W - MW - 11
CVOC Concentration vs Time
WFB Landfill



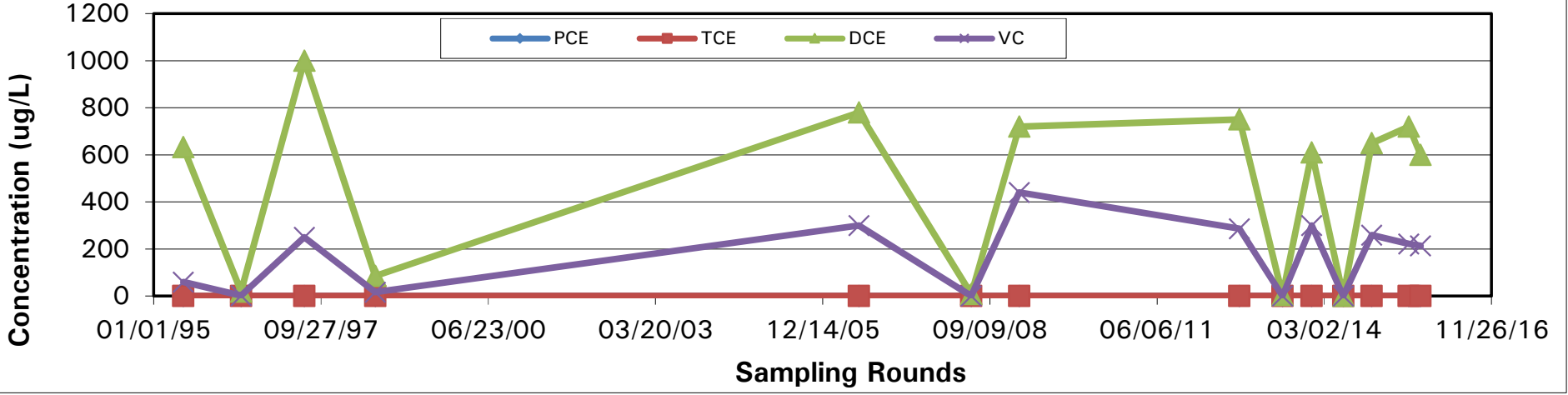
**MW-4
CVOC Concentration vs Time
WFB Landfill**



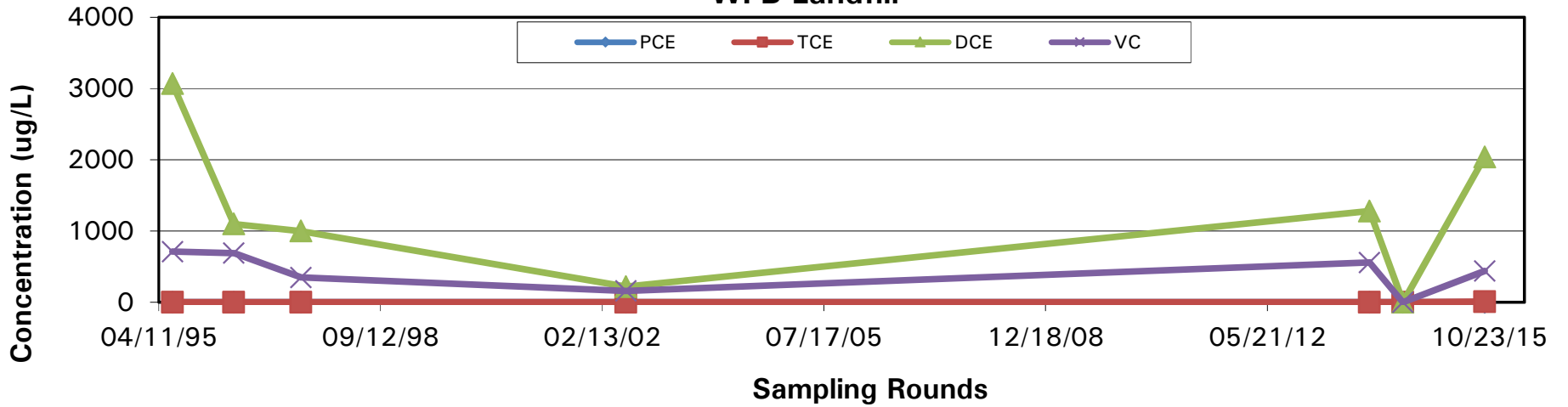
MW - 18
CVOC Concentration vs Time
WFB Landfill



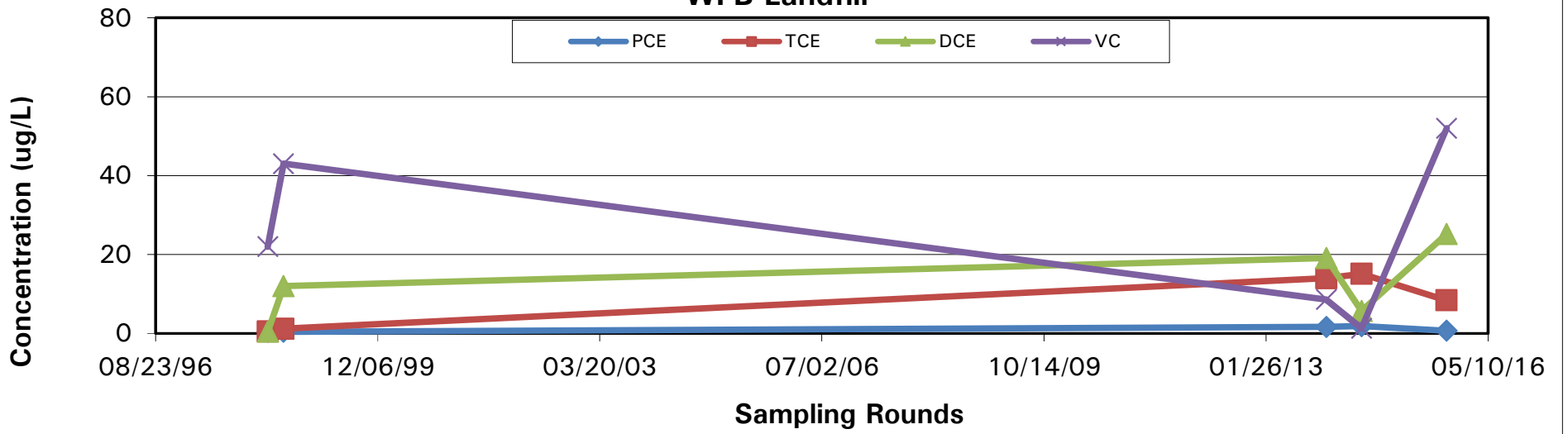
**MW - 25
CVOC Concentration vs Time
WFB Landfill**



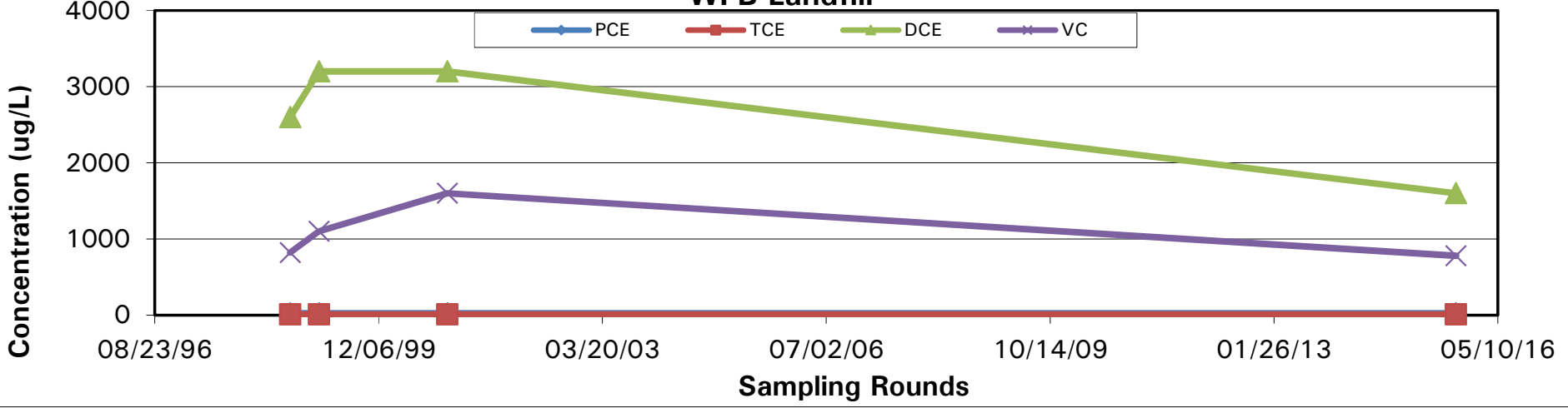
MW - 26
CVOC Concentration vs Time
WFB Landfill



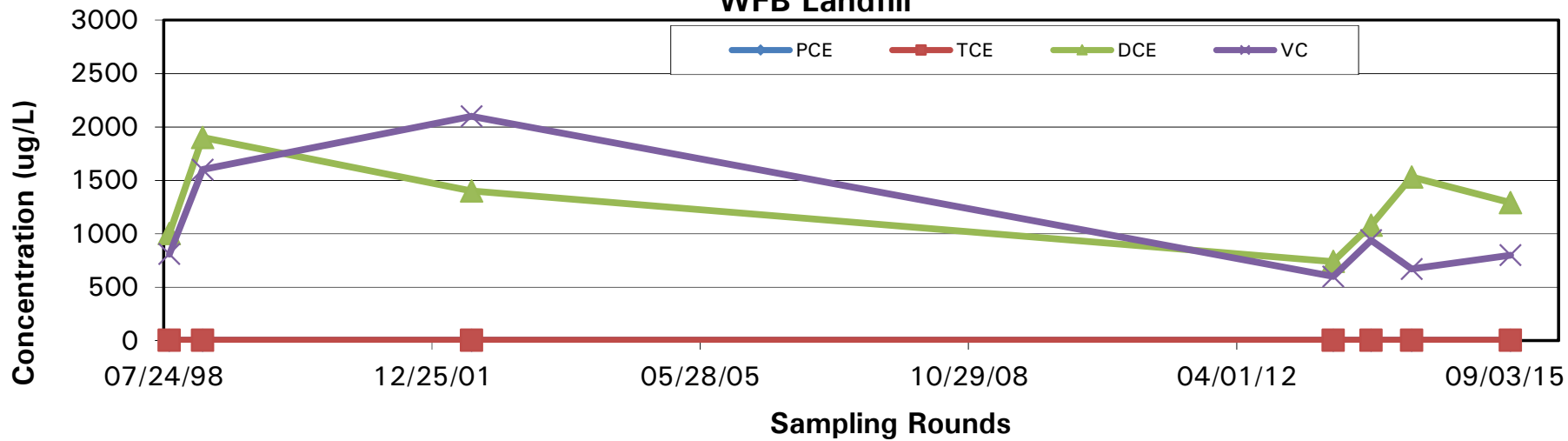
W - MW - 5S
CVOC Concentration vs Time
WFB Landfill



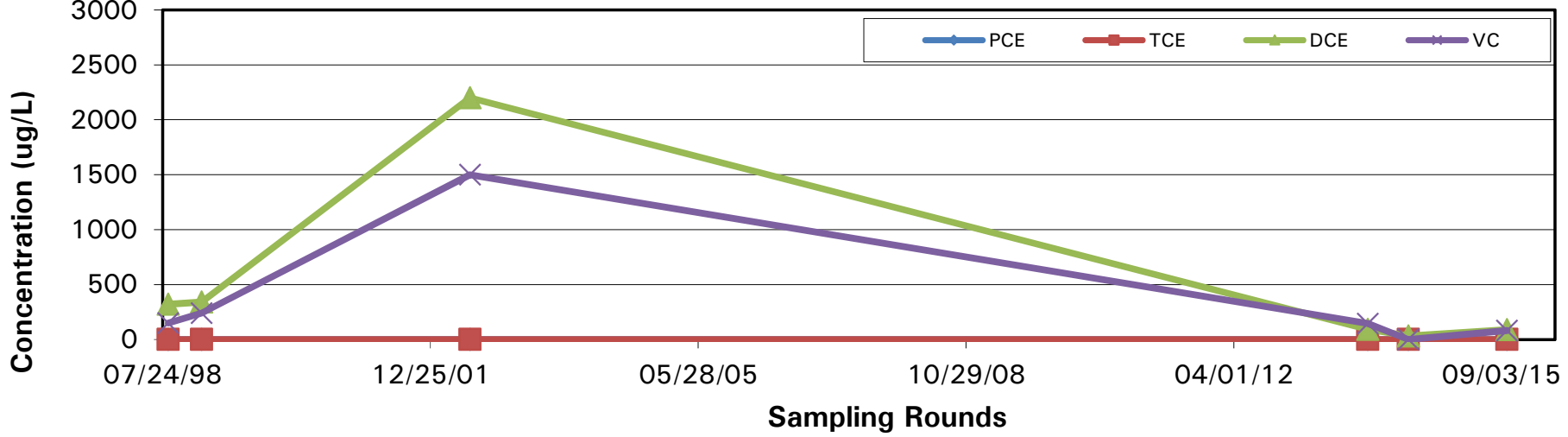
MPS - P1/P1R
CVOC Concentration vs Time
WFB Landfill



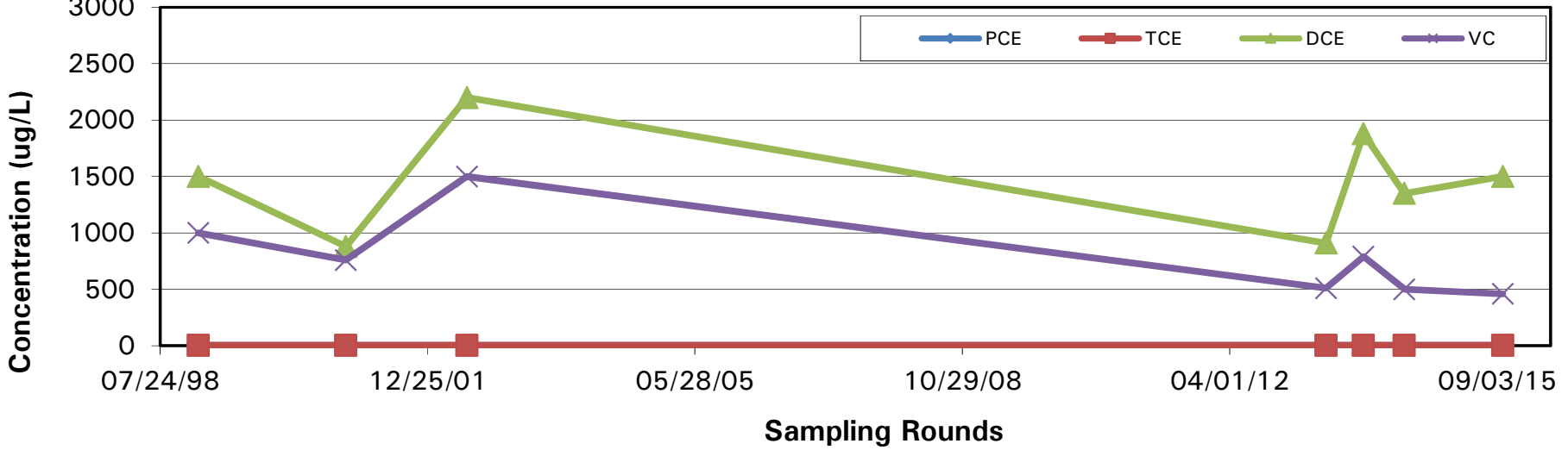
MPS - P2
CVOC Concentration vs Time
WFB Landfill



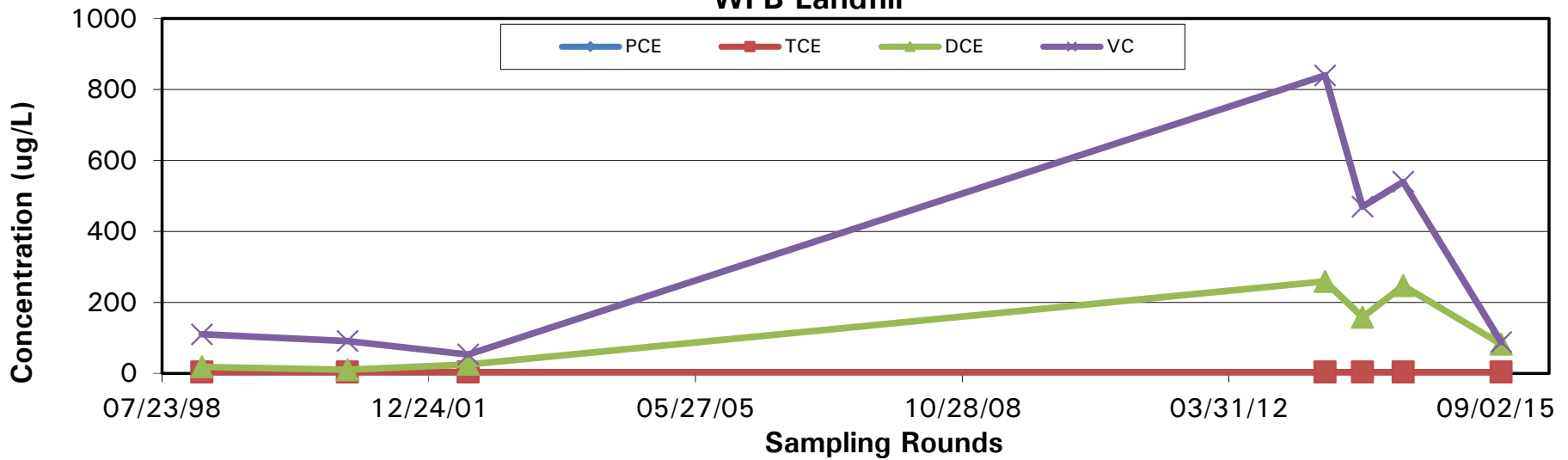
MPS - P3
CVOC Concentration vs Time
WFB Landfill



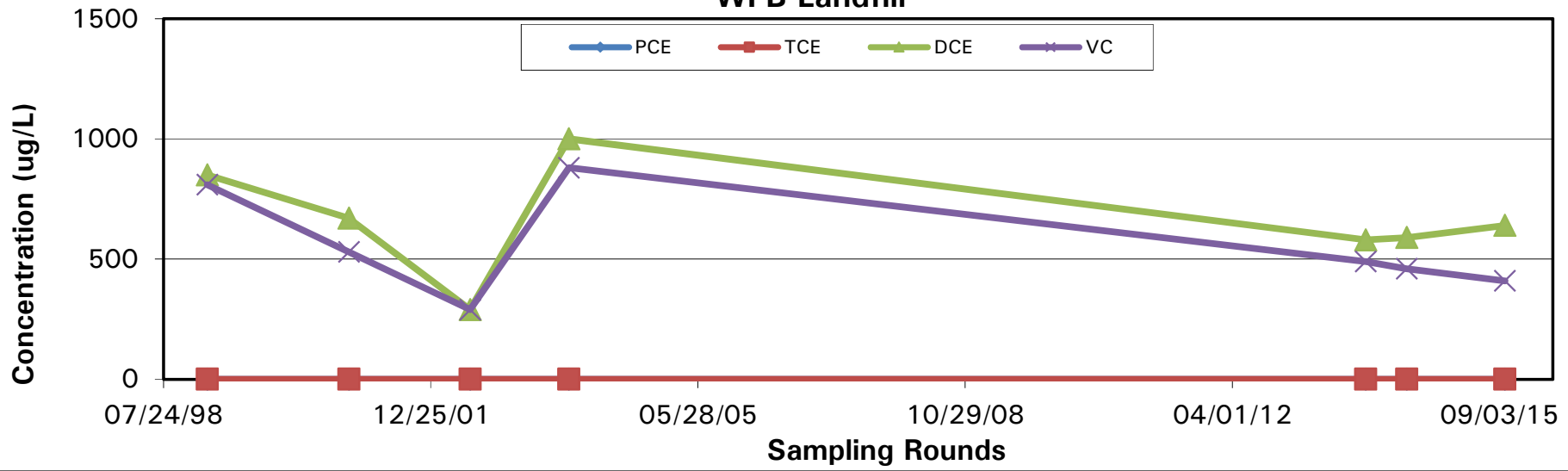
MPS - P4
CVOC Concentration vs Time
WFB Landfill



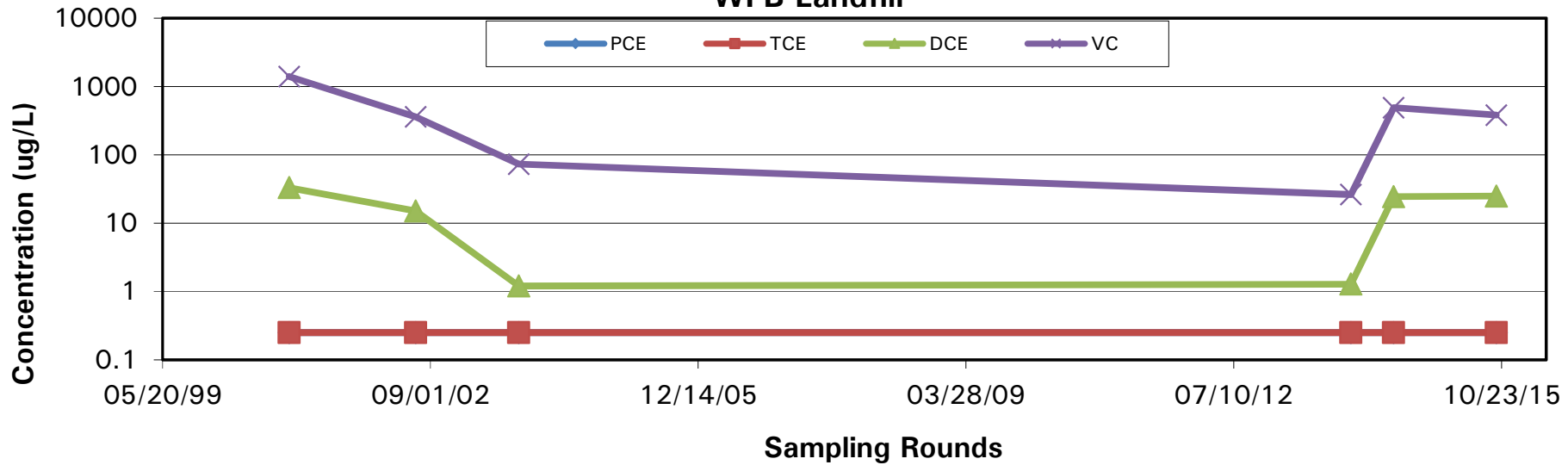
**MPS - P5
CVOC Concentration vs Time
WFB Landfill**

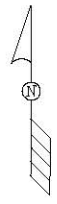


MPS - P6
CVOC Concentration vs Time
WFB Landfill



MPS - P7
CVOC Concentration vs Time
WFB Landfill





- NOTES:
- BOUNDARIES ARE APPROXIMATE.
 - THIS MAP WAS DEVELOPED FROM A MILWAUKEE COUNTY MAP, THIENSVILLE QUADRANGLE TOPOGRAPHIC MAP, AND SURVEY DATA.
 - SHADED WELLS REPRESENT CONCENTRATION BELOW DETECTION LIMIT.
 - EXTENT OF GROUNDWATER IMPACTS:
 - > 100 ppb TETRACHLOROETHENE
 - > 100 ppb TRICHLOROETHENE
 - > 10 ppb cis-1,2-DICHLOROETHENE
 - > 1 ppb VINYL CHLORIDE

ANALYTICAL KEY

- PCE = TETRACHLOROETHENE
 - TCE = TRICHLOROETHENE
 - TCA = 1,1,1-TRICHLOROETHANE
 - DCE = cis-1,2-DICHLOROETHENE
 - VC = VINYL CHLORIDE
 - MC = METHYLENE CHLORIDE
- ALL CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER (ug/l)

LEGEND

- Monitoring Well
- Piezometer
- Chain Link Fence
- Property Line

DRAWING NUMBER
3125-063

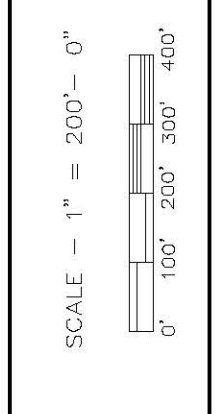
FIGURE 10

DISTRIBUTION OF SELECT CVOCs IN GROUNDWATER - 2002
PRESIDIO SQUARE APARTMENTS / WHITEFISH BAY LANDFILL / MPS PROPERTY
5401 W. PRESIDION LANE AND 5201 WEST GOOD HOPE ROAD
MILWAUKEE, WISCONSIN

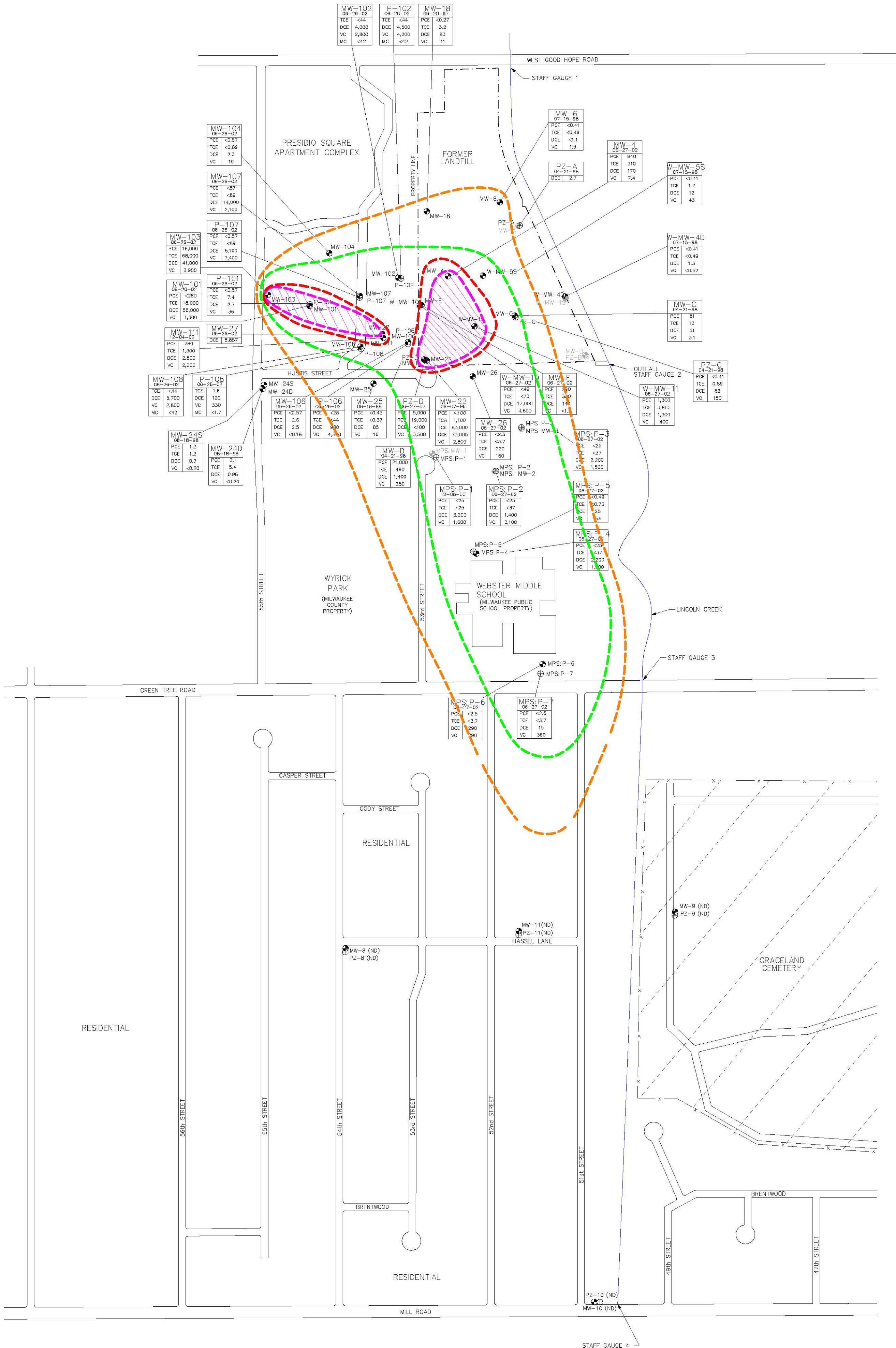
DATE:	9-17-02
NAME:	
DRAWN BY:	
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	

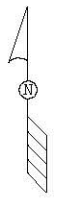
BY	APVD
REVISIONS	

NO	DATE



1300 WEST CANAL STREET
MILWAUKEE, WISCONSIN 53233
PHONE : (414) 643-4200





- NOTES:
- BOUNDARIES ARE APPROXIMATE.
 - THIS MAP WAS DEVELOPED FROM A MILWAUKEE COUNTY MAP, THIENSVILLE QUADRANGLE TOPOGRAPHIC MAP, AND SURVEY DATA.
 - SHADED WELLS REPRESENT CONCENTRATION BELOW DETECTION LIMIT.
 - GROUNDWATER CONCENTRATION DATA INCLUDE RESULTS FROM SAMPLING PERFORMED IN JUNE 2014 FOR MOST OF THE SAMPLING POINTS. WELLS THAT COULD NOT BE SAMPLED (EITHER DESTROYED OR DRY) LAST AVAILABLE DATA WAS USED.
 - EXTENT OF GROUNDWATER IMPACTS:
 - > 100 ppb TETRACHLOROETHENE
 - > 100 ppb TRICHLOROETHENE
 - > 10 ppb cis-1,2-DICHLOROETHENE
 - > 1 ppb VINYL CHLORIDE
 - WHERE CURRENT DATA ARE NOT AVAILABLE HISTORICAL GROUNDWATER DATA WAS USED TO GENERATE THE GROUNDWATER CVOC PLUME MAP.

ANALYTICAL KEY

- PCE = TETRACHLOROETHENE
 - TCE = TRICHLOROETHENE
 - DCE = cis-1,2-DICHLOROETHENE
 - VC = VINYL CHLORIDE
- ALL CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER (ug/L)

LEGEND

- = MONITORING WELL
- ⊕ = PIEZOMETER
- - - = CHAIN LINK FENCE
- - - = PROPERTY LINE

DRAWING NUMBER
3125-057

FIGURE 11

DISTRIBUTION OF SELECT CVOCs IN GROUNDWATER - JUNE 2014
PRESIDIO APARTMENTS/ WHITEFISH BAY LANDFILL / MPS PROPERTY
5401 W. PRESIDIO LAND AND 5201 WEST GOOD HOPE ROAD
MILWAUKEE, WI

DATE: 11/2014
NAME:
DRAWN BY:
DESIGNED BY:
CHECKED BY:
APPROVED BY:

NO	DATE	REVISIONS	BY	APVD

SCALE - 1" = 200'-0"
0' 100' 200' 300' 400'

THE SIGMA GROUP, INC.
1300 W. CANAL STREET, MILWAUKEE, WISCONSIN
(414) 643-4200

